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FILEID**SETDEVS

D 13

The image displays a large grid of letters and symbols arranged in a hierarchical pattern, resembling a digital tree or a search algorithm's execution path. The symbols are as follows:

- S**: A single character 'S'.
- SS**: Two characters 'S' stacked vertically.
- SSSS**: Four characters 'S' arranged in a 2x2 square.
- SSSSS**: Five characters 'S' arranged in a 3x2 rectangle.
- SSSSSS**: Six characters 'S' arranged in a 3x3 square.
- SSSSSSS**: Seven characters 'S' arranged in a 4x2 rectangle.
- SSSSSSSS**: Eight characters 'S' arranged in a 4x3 square.
- E**: A single character 'E'.
- EE**: Two characters 'E' stacked vertically.
- EEEE**: Three characters 'E' stacked vertically.
- EEEEE**: Four characters 'E' stacked vertically.
- EEEEE**: Five characters 'E' stacked vertically.
- TT**: Two characters 'T' stacked vertically.
- TTT**: Three characters 'T' stacked vertically.
- TTTT**: Four characters 'T' stacked vertically.
- TTTTT**: Five characters 'T' stacked vertically.
- DD**: Two characters 'D' stacked vertically.
- DDD**: Three characters 'D' stacked vertically.
- DDDD**: Four characters 'D' stacked vertically.
- DDDDD**: Five characters 'D' stacked vertically.
- VV**: Two characters 'V' stacked vertically.
- VVV**: Three characters 'V' stacked vertically.
- VVVV**: Four characters 'V' stacked vertically.
- VVVVV**: Five characters 'V' stacked vertically.
- SS**: Two characters 'S' stacked vertically.
- SSS**: Three characters 'S' stacked vertically.
- SSSS**: Four characters 'S' stacked vertically.
- SSSSS**: Five characters 'S' stacked vertically.
- SSSSSS**: Six characters 'S' stacked vertically.
- SSSSSSS**: Seven characters 'S' stacked vertically.
- SSSSSSSS**: Eight characters 'S' stacked vertically.
-**: Ellipsis characters indicating continuation.

The grid structure is as follows:

- Row 1:** SSSSSSSS, EEEEEEEEEE, TTTTTTTTTT, DDDDDDDDD, EEEEEEEEEE, VV, VV, SSSSSSSS, SSSSSSSS
- Row 2:** SS, EE, TT, DD, EE, VV, VV, SS, SSSSSSSS, SSSSSSSS
- Row 3:** SS, EE, TT, DD, EE, VV, VV, SS, SSSSSSSS, SSSSSSSS
- Row 4:** SS, EE, TT, DD, EE, VV, VV, SS, SSSSSSSS, SSSSSSSS
- Row 5:** SSSSSS, EEEEEE, TT, DD, EEEEEE, VV, VV, SSSSSS, SSSSSS
- Row 6:** SSSSS, EEEEEE, TT, DD, EEEEEE, VV, VV, SSSSS, SSSSS
- Row 7:** SSSS, EE, TT, DD, EE, VV, VV, SS, SS, SSSSS, SSSSS
- Row 8:** SSS, EE, TT, DD, EE, VV, VV, SS, SS, SSSSS, SSSSS
- Row 9:** SS, EE, TT, DD, EE, VV, VV, SS, SS, SSSSS, SSSSS
- Row 10:** SSSSSSSS, EEEEEEEEEE, TT, DDDDDDDDD, EEEEEEEEEE, VV, VV, SSSSSSSS, SSSSSSSS
- Row 11:** SSSSSSSS, EEEEEEEEEE, TT, DDDDDDDDD, EEEEEEEEEE, VV, VV, SSSSSSSS, SSSSSSSS
- Row 12:** LL, II, SSSSSSSS, SSSSSSSS
- Row 13:** LL, II, SS, SSSSSSSS
- Row 14:** LL, II, SS, SSSSSSSS
- Row 15:** LL, II, SS, SSSSSSSS
- Row 16:** LL, II, SS, SSSSSSSS
- Row 17:** LL, II, SS, SSSSSSSS
- Row 18:** LL, II, SS, SSSSSSSS
- Row 19:** LL, II, SS, SSSSSSSS
- Row 20:** LLLLLLLL, II, SSSSSSSS, SSSSSSSS
- Row 21:** LLLLLLLL, II, SSSSSSSS, SSSSSSSS

```

1 0001 0 MODULE setdevs ( IDENT = 'V04-000',
2 0002 0           ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL=LONG_RELATIVE)
3 0003 0           ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 ****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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11 0011 1 * ALL RIGHTS RESERVED.
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
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18 0018 1 * TRANSFERRED.
19 0019 1 *
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
22 0022 1 * CORPORATION.
23 0023 1 *
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
26 0026 1 *
27 0027 1 *
28 0028 1 ****
29 0029 1 *
30 0030 1 ++
31 0031 1 * FACILITY: SET Command
32 0032 1 *
33 0033 1 * ABSTRACT:
34 0034 1 *
35 0035 1 * This module implements the DCL commands SET CARD_READER, SET
36 0036 1 * MAGTAPE, and SET PRINTER.
37 0037 1 *
38 0038 1 * ENVIRONMENT:
39 0039 1 *
40 0040 1 * VAX/VMS operating system, user mode
41 0041 1 *
42 0042 1 * AUTHOR: Gerry Smith          23-Feb-1983
43 0043 1 *
44 0044 1 * Modified by:
45 0045 1 *
46 0046 1 * V03-004 DAS0001      David Solomon      09-Jul-1984
47 0047 1 * Fix truncation errors; make nonexternal refs LONG_RELATIVE.
48 0048 1 *
49 0049 1 * V03-003 EAD0146      Elliott A. Drayton   12-Apr-1984
50 0050 1 * Add code for new printer characteristics TAB, TRUNCATE,
51 0051 1 * SIXELS, and BITMAPPED.
52 0052 1 *
53 0053 1 * V03-002 EMD0046      Ellen M. Dusseault  2-Feb-1984
54 0054 1 * Add new line printer characteristic, fallback to
55 0055 1 * routine, SETSPRINTER.
56 0056 1 *
57 0057 1 * V03-001 GAS0112

```

SETDEVS
V04-000

F 13
16-Sep-1984 00:47:57 VAX-11 Bliss-32 v4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

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: 58 0058 1 |
: 59 0059 1 |
: 60 0060 1 |
: 61 0061 1 |--

Remove all references to old CLI interface, and old
command dispatcher.

```
63      0062 1 | Include files
64      0063 1 | LIBRARY 'SYSSLIBRARY:STARLET';          ! VAX/VMS common definitions
65      0064 1 |
66      0065 1 |
67      0066 1 |
68      0067 1 |
69      0068 1 |
70      0069 1 | Define bit settings for the flags longword
71      0070 1 |
72      0071 1 | MACRO
73          set$v_log      = 0, 0, 1, 0%,           ! /LOG
74          0072 1 |
75          0073 1 | For SET CARD_READER
76          0074 1 |
77          0075 1 |
78          0076 1 | set$v_029      = 0, 1, 1, 0%,           ! /029
79          0077 1 | set$v_026      = 0, 2, 1, 0%,           ! /026
80          0078 1 |
81          0079 1 | For SET MAGTAPE
82          0080 1 |
83          0081 1 | set$v_dens      = 0, 1, 1, 0%,           ! /DENSITY
84          0082 1 | set$v_1600      = 0, 2, 1, 0%,           =1600
85          0083 1 | set$v_800       = 0, 3, 1, 0%,           =800
86          0084 1 | set$v_6250      = 0, 4, 1, 0%,           =6250
87          0085 1 | set$v_logsoft   = 0, 5, 1, 0%,           /LOGSOFT
88          0086 1 | set$v_nologsoft = 0, 6, 1, 0%,           /NOLOGSOFT
89          0087 1 | set$v_files     = 0, 7, 1, 0%,           /SKIP=FILES
90          0088 1 | set$v_record    = 1, 0, 1, 0%,           ! /SKIP=RECORDS
91          0089 1 |
92          0090 1 | For SET PRINTER
93          0091 1 |
94          0092 1 | set$v_ff        = 0, 1, 1, 0%,           ! /FF
95          0093 1 | set$v_noff      = 0, 2, 1, 0%,           /NOFF
96          0094 1 | set$v_cr        = 0, 3, 1, 0%,           /CR
97          0095 1 | set$v_nocr      = 0, 4, 1, 0%,           /NOCR
98          0096 1 | set$v_pass      = 0, 5, 1, 0%,           /PASSALL
99          0097 1 | set$v_nopass    = 0, 6, 1, 0%,           /NOPASSALL
100         0098 1 | set$v_print     = 0, 7, 1, 0%,           /PRINTALL
101         0099 1 | set$v_noprint   = 1, 0, 1, 0%,           /NOPRINTALL
102         0100 1 | set$v_wrap      = 1, 1, 1, 0%,           /WRAP
103         0101 1 | set$v_nowrap    = 1, 2, 1, 0%,           /NOWRAP
104         0102 1 | set$v_lower     = 1, 3, 1, 0%,           /LOWERCASE (NOUPPER)
105         0103 1 | set$v_upper     = 1, 4, 1, 0%,           /UPPERCASE (NOLOWER)
106         0104 1 | set$v_lp11      = 1, 5, 1, 0%,           /LP11
107         0105 1 | set$v_la180     = 1, 6, 1, 0%,           /LA180
108         0106 1 | set$v_la11      = 1, 7, 1, 0%,           /LA11
109         0107 1 | set$v_unk        = 2, 0, 1, 0%,           /UNKNOWN
110         0108 1 | set$v_page      = 2, 1, 1, 0%,           /PAGE=n
111         0109 1 | set$v_width     = 2, 2, 1, 0%,           /WIDTH=n
112         0110 1 | set$v_fallback  = 2, 3, 1, 0%,           /FALLBACK
113         0111 1 | set$v_nofallback = 2, 4, 1, 0%,           /NOFALLBACK
114         0112 1 | set$v_truncate  = 2, 5, 1, 0%,           /TRUNCATE
115         0113 1 | set$v_notruncate = 2, 6, 1, 0%,           /NOTRUNCATE
116         0114 1 | set$v_tab        = 2, 7, 1, 0%,           /TAB
117         0115 1 | set$v_notab      = 2, 8, 1, 0%,           /NOTAB
118         0116 1 | set$v_sixels     = 2, 9, 1, 0%,           /SIXELS
119         0117 1 | set$v_nosixels   = 3, 0, 1, 0%,           /NOSIXELS
120         0118 1 | set$v_bitmapped  = 3, 1, 1, 0%,           ! /BITMAPPED
```

SETDEVS
V04-000

H 13
16-Sep-1984 00:47:57 VAX-11 Bliss-32 v4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

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: 120 0119 1 set\$v_nobitmapped = 3, 4, 1, 0%; ! /NOBITMAPPED

```
122      0120 1 | Table of contents
123      0121 1 |
124      0122 1 |
125      0123 1 |
126      0124 1 | FORWARD ROUTINE
127      0125 1 |   set$card_reader : NOVALUE.
128      0126 1 |   set$magtape : NOVALUE.
129      0127 1 |   set$priprinter : NOVALUE;
130      0128 1 |
131      0129 1 |
132      0130 1 | External routines
133      0131 1 |
134      0132 1 | EXTERNAL ROUTINE
135      0133 1 |   lib$cvt_dtb,
136      0134 1 |   cli$get_value,
137      0135 1 |   cli$present;
138      0136 1 |
139      0137 1 |
140      0138 1 |
141      0139 1 | Declare some shared messages
142      0140 1 |
143      P 0141 1 | $SHR_MSGDEF (SET,119,LOCAL,
144      P 0142 1 |   (valerr,           error),
145      0143 1 |   (invquaval,       error));
146      0144 1 |
147      0145 1 |
148      0146 1 | Declare Literals defined elsewhere
149      0147 1 |
150      0148 1 | EXTERNAL LITERAL
151      0149 1 |   set$-writeerr,
152      0150 1 |   set$-devset1,
153      0151 1 |   set$-devset2,
154      0152 1 |   set$-eofset,
155      0153 1 |   cli$-ivdevtype,
156      0154 1 |   cli$-devnotfor,
157      0155 1 |   cli$-absent,
158      0156 1 |   cli$-negated,
159      0157 1 |   cli$-abkeyw;
160      0158 1 |
```

| Convert ASCII to binary
| Get value from CLI
| See if qualifier is present

| Error modifying device
| characteristic set
| EOF written on tape
| Wrong device type
| Device not mounted foreign
| Qualifier absent
| Qualifier explicitly negated
| Ambiguous keyword

```
162      0159 1 GLOBAL ROUTINE set$card_reader : NOVALUE =
163      0160 2 BEGIN
164      0161 2 ++
165      0162 2 Functional description
166
167      0164 2 This is the routine for the SET CARD READER command. It is called
168      0165 2 from the SET command processor, and sets the characteristics of
169      0166 2 a card reader.
170      0167
171      0168 2 Inputs
172      0169 2 None
173      0170
174      0171 2 Outputs
175      0172 2 None
176      0173
177      0174 2 -----
178      0175
179      0176 LOCAL
180      0177 2 status,          ! Status return
181      0178 2 desc : $BBLOCK[dsc$c s bln],    ! General purpose descriptor
182      0179 2 flags : $BBLOCK[4] INITIAL (0),   ! Flags longword
183      0180 2 info_desc : VECTOR[2],        ! SGETCHN descriptor
184      0181 2 info_block : $BBLOCK[12],     ! SGETCHN information block
185      0182 2 channel : WORD,           ! I/O channel
186      0183 2 iosb : VECTOR[4,WORD];    ! I/O status block
187
188      0184
189      0185 2 Collect the name of the card reader.
190      0186
191      0187 2 Sinit_dyndesc(desc);          ! Make the descriptor dynamic
192      0188 2 cli$get_value(%ASCID 'DEVICE',
193      0189 2             desc);
194
195      0190
196      0191 2 Determine what characteristics to set, and whether or not to log them.
197      0192
198      0193 2 flags[set$v_log] = cli$present(%ASCID 'LOG');
199      0194 2 flags[set$v_029] = cli$present(%ASCID '029');
200      0195 2 flags[set$v_026] = cli$present(%ASCID '026');
201      0196 2 IF NOT .flags[set$v_029]
202      0197 2 AND NOT .flags[set$v_026]
203      0198 2 THEN RETURN;
204
205      0199
206      0200
207      0201
208      0202
209      0203 2 Assign a channel to the device.
210      0204 P 0205 2 IF NOT (status = $ASSIGN(DEVNAM = desc,
211      0206 2                         CHAN = channel))
212      0207 2 THEN
213      0208 2     BEGIN
214      0209 2     SIGNAL(set$_writeerr, 1, desc, .status);
215      0210 2     RETURN;
216      0211 2     END;
217      0212
218      0213 2 Determine if it is indeed a card reader.
; 219      0214 2 !
; 220      0215 2 !
```

```

219      0216 2 info_desc[0] = 12;
220      0217 2 info_desc[1] = info_block;
221      P 0218 2 IF NOT (status = $GETCHN($CDBUF = info_desc,
222                                CHAN = .channel))
223          0219 2 THEN
224              BEGIN
225                  SIGNAL(set$_writeerr, 1, desc, .status);
226                  RETURN;
227                  END;
228
229          0226 2 IF .info_block[dib$b_devclass] NEQU dc$_card
230          THEN
231              BEGIN
232                  SIGNAL(set$_writeerr, 1, desc,
233                      cli$_ivdevtype);
234                  END;
235
236          0234 2 ! Set the specified characteristic.
237
238          0236 2 IF .flags[set$v_026]
239          THEN SBBLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t026
240          ELSE SBBLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t029;
241
242          P 0240 2 status = $QIOW(CHAN = .channel,
243                            FUNC = IOS_SETMODE,
244                            IOSB = iosb,
245                            P1 = info_block[dib$b_devclass],
246                            P2 = 8);
247
248          0246 2 IF .status
249          THEN status = .iosb[0];
250
251          0248 2 IF NOT .status
252          THEN
253              BEGIN
254                  SIGNAL(set$_writeerr, 1, desc, .status);
255                  END
256
257          0253 2 ELSE IF .flags[set$v_log]
258          THEN SIGNAL(set$_devset1, 2, desc, (IF .flags[set$v_026]
259                                         THEN %ASCID '026'
260                                         ELSE %ASCID '029'));
261
262          0258 2 RETURN;
263          0259 1 END;

```

```

:TITLE SETDEVS
:IDENT \V04-000\

.PSECT SPLITS,NOWRT,NOEXE,2

```

| | |
|--------------------------------------|-----------------------|
| 00 00 45 43 49 56 45 44 00000 P.AAB: | .ASCII \DEVICE\<0><0> |
| 010E0006 00008 P.AAA: | .LONG 17694726 |
| 00000000 0000C | .ADDRESS P.AAB |
| 00 47 4F 4C 00010 P.AAD: | .ASCII \LOG\<0> |
| 010E0003 00014 P.AAC: | .LONG 17694723 |
| 00000000 00018 | .ADDRESS P.AAD |

| | | | | | | |
|----|----|----------|-------|-----------------|--|-----------------|
| 00 | 39 | 32 | 30 | 0001C | P.AAF: | .ASCII \029\<0> |
| | | 010E0003 | | 00020 | P.AAE: | .LONG 17694723 |
| | | 00000000 | | 00024 | P.AAH: | .ADDRESS P.AAF |
| 00 | 36 | 32 | 30 | 00028 | P.AAH: | .ASCII \026\<0> |
| | | 010E0003 | | 0002C | P.AAG: | .LONG 17694723 |
| | | 00000000 | | 00030 | P.AAJ: | .ADDRESS P.AAH |
| 00 | 36 | 32 | 30 | 00034 | P.AAJ: | .ASCII \026\<0> |
| | | 010E0003 | | 00038 | P.AAI: | .LONG 17694723 |
| | | 00000000 | | 0003C | P.AAL: | .ADDRESS P.AAJ |
| 00 | 39 | 32 | 30 | 00040 | P.AAL: | .ASCII \029\<0> |
| | | 010E0003 | | 00044 | P.AAK: | .LONG 17694723 |
| | | 00000000 | | 00048 | | .ADDRESS P.AAL |
| | | | | | .EXTRN LIBSCVT DTB, CLISGET VALUE | |
| | | | | | .EXTRN CLISPRESNT SETS WRITEERR | |
| | | | | | .EXTRN SETS_DEVSET1, SETS_DEVSET2 | |
| | | | | | .EXTRN SETS_EOFSET, CLIS_IVDEVTYP | |
| | | | | | .EXTRN CLIS_DEVNOTFOR, CLIS_ABSENT | |
| | | | | | .EXTRN CLIS_NEGATED, CLIS_ABKEYW | |
| | | | | | .EXTRN SYSSASSIGN, SYSSGETCHN | |
| | | | | | .EXTRN SYSSQIOW | |
| | | | | | .PSECT SCODES,NOWRT,2 | |
| | | | | | .ENTRY SETSCARD READER, Save R2,R3,R4,R5,R6,R7 | |
| | 00 | 00FC | 00000 | | MOVAB LIBSSIGNAL, R7 | |
| | 8F | D0 | 00009 | | MOVL #SETS WRITEERR, R6 | |
| | 00 | 9E | 00010 | | MOVAB CLISPRESNT, R5 | |
| | EF | 9E | 00017 | | MOVAB P.AAA, R4 | |
| | 28 | C2 | 0001E | | SUBL2 #40, SP | |
| | 53 | D4 | 00021 | | CLRL FLAGS | |
| | 8F | D0 | 00023 | | MOVL #34471936, DESC | |
| 24 | AE | D4 | 0002B | | CLRL DESC+4 | |
| 20 | AE | 9F | 0002E | | PUSHAB DESC | |
| | 54 | DD | 00031 | | PUSHL R4 | |
| | 02 | FB | 00033 | | CALLS #2, CLISGET_VALUE | |
| 0C | A4 | 9F | 0003A | | PUSHAB P.AAC | |
| | 01 | FB | 0003D | | CALLS #1, CLISPRESNT | |
| | 50 | F0 | 00040 | | INSV R0, #0, #1, FLAGS | |
| 18 | A4 | 9F | 00045 | | PUSHAB P.AAE | |
| | 01 | FB | 00048 | | CALLS #1, CLISPRESNT | |
| | 50 | F0 | 0004B | | INSV R0, #1, #1, FLAGS | |
| 24 | A4 | 9F | 00050 | | PUSHAB P.AAG | |
| | 01 | FB | 00053 | | CALLS #1, CLISPRESNT | |
| | 50 | F0 | 00056 | | INSV R0, #2, #1, FLAGS | |
| | 01 | E0 | 0005B | | BBS #1, FLAGS, 1\$ | |
| | 02 | E0 | 0005F | | BBS #2, FLAGS, 1\$ | |
| | | 04 | 00063 | | RET | |
| | | | | 1\$: CLRQ -(SP) | | |
| 08 | 7E | 7C | 00064 | | PUSHAB CHANNEL | |
| 2C | AE | 9F | 00066 | | PUSHAB DESC | |
| | AE | 9F | 00069 | | CALLS #4, SYSSASSIGN | |
| | 04 | FB | 0006C | | MOVL R0, STATUS | |
| | 50 | D0 | 00073 | | BLBC STATUS, 5\$ | |
| | 52 | E9 | 00076 | | MOVL #12, INFO_DESC | |
| 0C | DC | D0 | 00079 | | MOVAB INFO_BLOCK, INFO_DESC+4 | |
| 18 | AE | 9E | 0007D | | PUSHAB INFO_DESC | |
| | AE | 9F | 00082 | | | |

M 13
16-Sep-1984 00:47:57 VAX-11 Bliss-32 v4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

; Routine Size: 280 bytes, Routine Base: SCODES + 0000

```
0260 1 GLOBAL ROUTINE set$magtape : NOVALUE =
0261 2 BEGIN
0262 !++
0263 ! Functional description
0264
0265 This is the routine for the SET MAGTAPE command. It is called
0266 from the SET command processor, and performs various actions on
0267 a magtape.
0268
0269 Inputs
0270 None
0271
0272 Outputs
0273 None
0274
0275 -----
0276 LOCAL
0277
0278 status, ! Status return
0279 density, ! Magtape density
0280 function, ! QIO function code
0281 count, ! Number of files/records to skip
0282 desc : SBBLOCK[dsc$C_S_Bln], ! General purpose descriptor
0283 value_desc : SBBLOCK[dsc$C_S_Bln], ! Value descriptor
0284 flags : SBBLOCK[4] INITIAL(0), ! Flags longword
0285 info_desc : VECTOR[2], ! SGETCHN descriptor
0286 info_block : SBBLOCK[12], ! SGETCHN information block
0287 channel : WORD ! I/O channel
0288 iosb : VECTOR[4,WORD]; ! I/O status block
0289
0290 BIND mt_char = info_block[dib$L_devdepend] : SBBLOCK[4];
0291
0292 ! Collect the name of the magtape.
0293
0294 Sinit_dyndesc(desc); ! Make the descriptors dynamic
0295 Sinit_dyndesc(value_desc);
0296 cli$get_value(%ASCID 'DEVICE',
0297 desc);
0298
0299
0300
0301 ! Assign a channel to the device.
0302
P 0303 IF NOT (status = SASSIGN(DEVNAM = desc,
0304 CHAN = channel))
0305 THEN
0306 BEGIN
0307 SIGNAL(set$_writeerr, 1, desc, .status);
0308 RETURN;
0309 END;
0310
0311 ! Determine if it is indeed a magtape.
0312
0313 info_desc[0] = 12; ! Set up the descriptor
0314 info_desc[1] = info_block; ! for SGETCHN
0315 P 0315 IF NOT (status = SGETCHN($CDBUF = info_desc,
0316 CHAN = .channel)) ! Issue the SGETCHN, asking for
0317
0318
0319
0320
```

```
321      0317 2 THEN                                ! case it's spooled)
322          0318 BEGIN                               ! If a problem, signal it.
323          0319 SIGNAL(set$_writeerr, 1, desc, .status);
324          0320 RETURN;
325          0321 END;
326
327          0322 IF .info_block[dib$b_devclass] NEQU dc$_tape   ! If not a tape,
328          0323 THEN                                ! signal that it's not.
329              0324 BEGIN
330                  0325 SIGNAL(set$_writeerr, 1, desc,
331                      cli$_ivdevtype);
332                  0326 RETURN;
333                  0327 END;
334          0330 IF NOT .info_block[dev$v_mnt]           ! If not mounted,
335          0331 THEN                                ! signal an error
336              0332 BEGIN
337                  0333 SIGNAL(set$_writeerr, 1, desc, ss$_devnotmount);
338                  0334 RETURN;
339                  0335 END;
340          0336 IF NOT .info_block[dev$v_for]           ! If not mounted foreign,
341          0337 THEN                                ! signal an error
342              0338 BEGIN
343                  0339 SIGNAL(set$_writeerr, 1, desc, cli$_devnotfor);
344                  0340 RETURN;
345                  0341 END;
346
347          0343 | Determine whether to log the actions taken.
348          0344 |
349          0345 flags[set$v_log] = cli$present(%ASCID 'LOG');
350
351          0346 | Density
352          0347 |
353          0348 |
354          0349 |
355          0350 IF (flags[set$v_dens] = cli$get_value(%ASCID 'DENSITY', value_desc))
356          0351 THEN                                BEGIN
357              0352 IF NOT (status = lib$cvt_dtb(.value_desc[dsc$w_length]
358                  0353 .value_desc[dsc$w_pointer],
359                  0354 density))
360                  0355 THEN
361                      0356 BEGIN
362                          0357 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'DENSITY');
363                          0358 RETURN;
364                          0359 END;
365                          0360 END;
366                          0361 IF .density EQL 1600
367                          0362 THEN                                BEGIN
368                              0363 flags[set$v_1600] = 1;
369                              0364 mt$char[mt$v_density] = mt$k_pe_1600;
370                              0365 END;
371
372                          0366 ELSE IF .density EQL 800
373                          0367 THEN                                BEGIN
374                              0368 flags[set$v_800] = 1;
375                              0369 mt$char[mt$v_density] = mt$k_nrzi_800;
376                              0370 END;
377                          0371 END;
378                          0372 END;
379                          0373 END;
```

```
378      0374      3    ELSE IF .density EQ 6250
379      0375      3    THEN
380      0376      4    BEGIN
381      0377      4    flags[set$v_6250] = 1;
382      0378      4    mt char[mt$v_density] = mt$gcr_6250;
383      0379      4    END
384      0380      3    ELSE
385      0381      4    BEGIN
386      0382      4    SIGNAL(set$_invquaval, 2, desc, %ASCID 'DENSITY');
387      0383      4    RETURN;
388      0384      3    END;
389      0385      4    END;

390      0386      2
391      0387      2
392      0388      2    !/[ENO]LOGSOFT is only good for TU78's
393      0389      2
394      0390      2    IF (status = cli$present(%ASCID 'LOGSOFT')) NEQ cli$absent
395      0391      2    THEN
396      0392      3    BEGIN
397      0393      4    IF .status NEQ cli$negated
398      0394      3    THEN
399      0395      4    BEGIN
400      0396      4    flags[set$v_logsoft] = 1;
401      0397      4    mt char[mt$v_logsoft] = 1;
402      0398      4    END
403      0399      3    ELSE
404      0400      4    BEGIN
405      0401      4    flags[set$v_nologsoft] = 1;
406      0402      4    mt char[mt$v_nologsoft] = 0;
407      0403      3    END;
408      0404      2    END;

409      0405      2
410      0406      2
411      0407      2
412      0408      2
413      0409      2
414      0410      3    IF .flags[set$v_dens]
415      P 0411      3    OR .flags[set$v_logsoft]
416      P 0412      3    OR .flags[set$v_nologsoft]
417      P 0413      3    THEN
418      P 0414      3    BEGIN
419      0415      4    status = $OIOW(CHAN = .channel,
420                      FUNC = IOS_SETMODE,
421                      IOSB = iosb,
422                      P1   = info_block[dib$b_devclass],
423                      P2   = 8);

424      0416      3    IF .status
425      0417      4    THEN status = .iosb[0];
426      0418      3    IF NOT .status
427      0419      4    THEN SIGNAL(set$_writeerr, 1, desc, .status)
428      0420      3    ELSE IF .flags[set$v_log]
429      0421      3    THEN
430      0422      4    BEGIN
431      0423      4    IF .flags[set$v_dens]
432      0424      4    THEN SIGNAL(set$_devset2, 3, desc, %ASCID 'DENSITY',
433      0425      4    (IF .flags[set$v_1600]
434      0426      5    THEN %ASCID '1600'
435      0427      5    ELSE IF .flags[set$v_800]
436      0428      5    THEN %ASCID '800'
437      0429      5    ELSE %ASCID '6250'));
```



```
492      0488 4      BEGIN
493      0489 4      SIGNAL(set$_invqua$al, 2, value_desc, %ASCIID 'SKIP');
494      0490 4      RETURN;
495      0491 4      END;
496      0492 2      END IF
497      0493 2      ELSE IF cli$get_value(%ASCIID 'SKIP.BLOCKS', value_desc)
498      0494 2      THEN
499      0495 4      BEGIN
500      0496 4      function = ios_skiprecord;
501      0497 4      flags[set$v_record] = 1;
502      0498 4      IF NOT (status = lib$cvt_dtb(.value_desc[dsc$w_length],
503      0499 4      .value_desc[dsc$g_pointer]),
504      0500 4      count)
505      0501 3      THEN
506      0502 4      BEGIN
507      0503 4      SIGNAL(set$_invqua$al, 2, value_desc, %ASCIID 'SKIP');
508      0504 4      RETURN;
509      0505 3      END;
510      0506 3      END
511      0507 2      ELSE IF cli$get_value(%ASCIID 'SKIP.RECORDS', value_desc)
512      0508 2      THEN
513      0509 4      BEGIN
514      0510 4      function = ios_skiprecord;
515      0511 4      flags[set$v_record] = 1;
516      0512 4      IF NOT (status = lib$cvt_dtb(.value_desc[dsc$w_length],
517      0513 4      .value_desc[dsc$g_pointer]),
518      0514 4      count)
519      0515 3      THEN
520      0516 4      BEGIN
521      0517 4      SIGNAL(set$_invqua$al, 2, value_desc, %ASCIID 'SKIP');
522      0518 4      RETURN;
523      0519 4      END
524      0520 2      END;
525      0521 2      IF .function NEQ 0
526      0522 2      THEN
527      0523 4      BEGIN
528      P 0525 4      status = $QIOW(CHAN = .channel,
529      P 0526 4      FUNC = .function,
530      P 0527 4      IOSB = iosb,
531      P 0528 4      P1 = .count);
532      0529 4      IF .status
533      0530 4      THEN status = .iosb[0];
534      0531 4      IF NOT .status
535      0532 4      THEN
536      0533 4      BEGIN
537      0534 4      SIGNAL(set$_writeerr, 1, desc, .status);
538      0535 4      RETURN;
539      0536 3      END;
540      0537 3      !
541      0538 3      ! If the skip function was negative, then the tape must be re-positioned
542      0539 3      forward, over the end mark.
543      0540 3      !
544      0541 4      IF .count LSS 0
545      0542 4      THEN
546      0543 4      BEGIN
547      P 0544 4      status = $QIOW(CHAN = .channel,
```

```
549      P 0545 4          FUNC = ,function,  
550      P 0546 4          IOSB = iosb,  
551      0547 4          P1 = 1);  
552      0548 4          IF .status  
553      0549 4          THEN status = .iosb[0];  
554      0550 4          IF NOT .status  
555      0551 4          THEN  
556      0552 5          BEGIN  
557      0553 2          SIGNAL(set$_writeerr, 1, desc, .status);  
558      0554 3          RETURN;  
559      0555 4          END;  
560      0556 5          END;  
561      0557 5  
562      0558 5  
563      0559 5          ! If /LOG, then tell what was done.  
564      0560 5  
565      0561 5  
566      0562 5          IF .flags[set$v_log]  
567      0563 5          THEN SIGNAL(set$_devset2, 3, desc,  
568      0564 4          (IF .flags[set$v_files]  
569      0565 4          THEN %ASCID 'SKIP_FILES'  
570      0566 3          ELSE %ASCID 'SKIP_RECORDS'),  
571      0567 3          value_desc);  
572      0568 2          END;  
573      0569 2  
574      0570 2  
575      0571 2          ! Lastly, check for /REWIND or /UNLOAD.  
576      0572 2  
577      0573 2          IF cli$present(%ASCID 'REWIND')  
578      0574 2          THEN  
579      0575 3          BEGIN  
580      P 0576 3          status = SQIOW(CHAN = .channel,  
581      P 0577 3          IOSB = iosb,  
582      0578 3          FUNC = ios_rewind);  
583      0579 3          IF .status  
584      0580 3          THEN status = .iosb[0];  
585      0581 3          IF NOT .status  
586      0582 3          THEN  
587      0583 4          BEGIN  
588      0584 4          SIGNAL(set$_writeerr, 1, desc, .status);  
589      0585 4          END  
590      0586 3          ELSE IF .flags[set$v_log]  
591      0587 3          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'REWIND');  
592      0588 2          END;  
593      0589 2  
594      0590 2          IF cli$present(%ASCID 'UNLOAD')  
595      0591 2          THEN  
596      0592 3          BEGIN  
597      P 0593 3          status = SQIOW(CHAN = .channel,  
598      P 0594 3          IOSB = iosb,  
599      0595 3          FUNC = ios_rewindoff);  
600      0596 3          IF .status  
601      0597 3          THEN status = .iosb[0];  
602      0598 3          IF NOT .status  
603      0599 3          THEN SIGNAL(set$_writeerr, 1, desc, .status)  
604      0600 3          ELSE IF .flags[set$v_log]  
605      0601 3          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'UNLOAD');
```

```
606      0602 2 END;
607      0603 2
608      0604 2 RETURN;
609      0605 1 END;
```

.PSECT SPLIT\$,NOWRT,NOEXE,2

| | | |
|-------------------------|--------------|---------------------------|
| 00 00 45 43 49 56 45 44 | 0004C P.AAN: | .ASCII \DEVICE\<0><0> |
| 010E0006 | 00054 P.AAM: | .LONG 17694726 |
| 00000000 | 00058 | .ADDRESS P.AAN |
| 00 47 4F 4C | 0005C P.AAP: | .ASCII \LOG\<0> |
| 010E0003 | 00060 P.AAO: | .LONG 17694723 |
| 00000000 | 00064 | .ADDRESS P.AAP |
| 00 59 54 49 53 4E 45 44 | 00068 P.AAR: | .ASCII \DENSITY\<0> |
| 010E0007 | 00070 P.AAQ: | .LONG 17694727 |
| 00000000 | 00074 | .ADDRESS P.AAR |
| 00 59 54 49 53 4E 45 44 | 00078 P.AAT: | .ASCII \DENSITY\<0> |
| 010E0007 | 00080 P.AAS: | .LONG 17694727 |
| 00000000 | 00084 | .ADDRESS P.AAT |
| 00 59 54 49 53 4E 45 44 | 00088 P.AAV: | .ASCII \DENSITY\<0> |
| 010E0007 | 00090 P.AAU: | .LONG 17694727 |
| 00000000 | 00094 | .ADDRESS P.AAV |
| 00 54 46 4F 53 47 4F 4C | 00098 P.AAX: | .ASCII \LOGSOFT\<0> |
| 010E0007 | 000A0 P.AAW: | .LONG 17694727 |
| 00000000 | 000A4 | .ADDRESS P.AAX |
| 00 59 54 49 53 4E 45 44 | 000A8 P.AAZ: | .ASCII \DENSITY\<0> |
| 010E0007 | 000B0 P.AAY: | .LONG 17694727 |
| 00000000 | 000B4 | .ADDRESS P.AAZ |
| 30 30 36 31 | 000B8 P.ABB: | .ASCII \1600\ |
| 010E0004 | 000BC P.ABA: | .LONG 17694724 |
| 00000000 | 000C0 | .ADDRESS P.ABB |
| 00 30 30 38 | 000C4 P.ABD: | .ASCII \800\<0> |
| 010E0003 | 000C8 P.ABC: | .LONG 17694723 |
| 00000000 | 000CC | .ADDRESS P.ABD |
| 30 35 32 36 | 000D0 P.ABF: | .ASCII \6250\ |
| 010E0004 | 000D4 P.ABE: | .LONG 17694724 |
| 00000000 | 000D8 | .ADDRESS P.ABF |
| 00 45 4C 49 46 5F 46 4F | 000DC P.ABH: | .ASCII \END_OF_FILE\<0> |
| 5F 46 4F 5F 44 4E 45 2E | 000E8 P.ABG: | .LONG 1769473T |
| 50 41 54 5F 46 4F 5F 44 | 000EC P.ABJ: | .ADDRESS P.ABH |
| 4E 45 2E 50 49 4B 53 | 000F0 P.ABJ: | .ASCII \SKIP.END_OF_TAPE\ |
| 45 | 000FF | |
| | 00100 P.ABI: | .LONG 17694736 |
| 010E0010 | 00104 | .ADDRESS P.ABI |
| 00000000 | | |
| 00 45 50 41 54 5F 46 4F | 00108 P.ABL: | .ASCII \END_OF_TAPE\<0> |
| 5F 44 4E 45 | 00114 P.ABK: | .LONG 1769473T |
| 010E0008 | 00118 | .ADDRESS P.ABL |
| 00000000 | | |
| 00 00 53 45 4C 49 46 2E | 0011C P.ABN: | .ASCII \SKIP.FILES\<0><0> |
| 50 49 4B 53 | 00128 P.ABM: | .LONG 17694730 |
| 010E000A | 0012C | .ADDRESS P.ABN |
| 00000000 | | |
| 50 49 4B 53 | 00130 P.ABP: | .ASCII \SKIP\ |
| 010E0004 | 00134 P.ABO: | .LONG 17694724 |
| 00000000 | 00138 | .ADDRESS P.ABP |
| 00 53 48 43 4F 4C 42 2E | 0013C P.ABR: | .ASCII \SKIP.BLOCKS\<0> |
| 50 49 4B 53 | 00148 P.ABQ: | .LONG 17694731 |

| | | | | | |
|----|----------------------|----|----------------|--------|---------------------------|
| | | 50 | 49 00000000 | 0014C | .ADDRESS P.ABR |
| | | | 010E0004 | 00150 | P.ABT: .ASCII \SKIP\ |
| | | | 00000000 | 00154 | P.ABS: .LONG 17694724 |
| 53 | 44 52 4F 43 45 52 2E | 50 | 49 4B 53 00158 | P.ABV: | .ADDRESS P.ABT |
| | | | 010E000C | 00168 | .ASCII \SKIP,RECORDS\ |
| | | | 00000000 | 0016C | P.ABU: .LONG 17694732 |
| | | 50 | 49 4B 53 00170 | P.ABX: | .ADDRESS P.ABV |
| | | | 010E0004 | 00174 | .ASCII \SKIP\ |
| | | | 00000000 | 00178 | P.ABW: .LONG 17694724 |
| 00 | 00 53 45 4C 49 46 5F | 50 | 49 4B 53 0017C | P.ABZ: | .ADDRESS P.ABX |
| | | | 010E000A | 00188 | .ASCII \SKIP FILES\<0><0> |
| | | | 00000000 | 0018C | P.ACZ: .LONG 17694730 |
| 53 | 44 52 4F 43 45 52 5F | 50 | 49 4B 53 00190 | P.ACZ: | .ASCII \SKIP RECORDS\ |
| | | | 010E000C | 0019C | P.ACA: .LONG 17694732 |
| | | | 00000000 | 001A0 | .ADDRESS P.ACZ |
| | 00 00 44 4E 49 | 57 | 45 52 001A4 | P.ACD: | .ASCII \REWIND\<0><0> |
| | | | 010E0006 | 001AC | P.ACC: .LONG 17694726 |
| | | | 00000000 | 001B0 | .ADDRESS P.ACD |
| | 00 00 44 4E 49 | 57 | 45 52 001B4 | P.ACF: | .ASCII \REWIND\<0><0> |
| | | | 010E0006 | 001BC | P.ACE: .LONG 17694726 |
| | | | 00000000 | 001C0 | .ADDRESS P.ACF |
| | 00 00 44 41 4F | 4C | 4E 55 001C4 | P.ACH: | .ASCII \UNLOAD\<0><0> |
| | | | 010E0006 | 001CC | P.ACG: .LONG 17694726 |
| | | | 00000000 | 001D0 | .ADDRESS P.ACH |
| | 00 00 44 41 4F | 4C | 4E 55 001D4 | P.ACJ: | .ASCII \UNLOAD\<0><0> |
| | | | 010E0006 | 001DC | P.ACJ: .LONG 17694726 |
| | | | 00000000 | 001E0 | .ADDRESS P.ACJ |

.PSECT SCODES,NOWRT,2

| | | OFFC 00000 | .ENTRY | SCODES,NOWRT,2 | |
|--|----------|----------------|--|-----------------------|------|
| | | | SET\$MAGTAPE, Save R2,R3,R4,R5,R6,R7,R8,R9,- | | 0260 |
| | | | R10,R11 | | |
| | | 5B 0000000G | MOVAB | LIB\$CVT DTB, R11 | |
| | | 5A 0000000G | MOVL | #SETS WRITEERR, R10 | |
| | | 59 0000000G | MOVAB | CLISGET VALUE, R9 | |
| | | 58 0000000G | MOVAB | CLISPRESNT, R8 | |
| | | 57 0000000G | MOVAB | SYSSQIOW, R7 | |
| | | 56 0000000G | MOVAB | LIB\$SIGNAL, R6 | |
| | | 55 0000000 | MOVAB | P.AAM, R5 | |
| | | 5E | SUBL2 | #60, SP | |
| | | | CLRL | FLAGS | |
| | | 34 AE 020E0000 | MOVBL | #34471936, DESC | 0261 |
| | | 08 8F D0 00039 | CLRL | DESC+4 | 0295 |
| | | 38 AE D4 00041 | MOVL | #34471936, VALUE_DESC | 0296 |
| | | 2C AE 020E0000 | CLRL | VALUE_DESC+4 | 0297 |
| | | 30 8F D0 00044 | PUSHAB | DESC | |
| | | 34 AE D4 0004C | PUSHBL | R5 | |
| | | | CALLS | #2, CLISGET_VALUE | |
| | | 69 55 DD 00052 | CLRQ | -(SP) | |
| | | 02 FB 00054 | PUSHAB | CHANNEL | 0304 |
| | | 7E 7C 00057 | PUSHAB | DESC | |
| | | 08 AE 9F 00059 | CALLS | #4, SYSSASSIGN | |
| | | 40 AE 9F 0005C | MOVL | RO STATUS | |
| | 0000000G | 00 04 FB 0005F | BLBC | STATUS, 18 | |
| | | 52 50 D0 00066 | | | |
| | | 20 52 E9 00069 | | | |

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| | | | | | | | | | | | | | |
|-----------|----|------|------|-------|-------|-------|--------|---------------|---------------|------|--|--|------|
| | | | | | | | | | | | | | |
| 68 | 52 | 4C | 01E0 | 31 | 0013E | 11\$: | BRW | 33\$ | P.AAU | | | | 0390 |
| 00000000G | 8F | | A5 | 9F | 00141 | | PUSHAB | #1. | CLISPRES | | | | |
| | | | 01 | FB | 00144 | | CALLS | RO. | STATUS | | | | |
| | | | 50 | DD | 00147 | | MOVL | STÁTUS, | #CLIS_ABSEN | | | | |
| 00000000G | 8F | | 52 | D1 | 0014A | | CMPL | 13\$ | | | | | 0393 |
| | | | 1F | 13 | 00151 | | BEQL | STATUS. | #CLIS_NEGATED | | | | |
| | | | 52 | D1 | 00153 | | CMPL | 12\$ | | | | | |
| | | | 08 | 13 | 0015A | | BEQL | #32. | FLAGS | | | | 0396 |
| 08 | AE | 40 | 20 | 88 | 0015C | | BISB2 | #64. | MT_CHAR+1 | | | | 0397 |
| 21 | AE | | 8F | 88 | 00160 | | BISB2 | 13\$ | | | | | 0393 |
| | | | 0A | 11 | 00165 | | BRB | #64. | FLAGS | | | | 0396 |
| 08 | AE | 40 | 8F | 88 | 00167 | 12\$: | BISB2 | #64. | MT CHAR+1 | | | | 0397 |
| 21 | AE | | BF | 6A | 0016C | | BICB2 | 13\$: | FLAGS, | 14\$ | | | 0401 |
| 08 | AE | | 01 | E0 | 00171 | | BBS | #1. | FLAGS, | 14\$ | | | 0402 |
| 08 | AE | | 05 | E0 | 00176 | | BBS | #5. | FLAGS, | 14\$ | | | 0406 |
| 08 | AE | | 06 | E1 | 0017B | | BBC | #6. | FLAGS, | 20\$ | | | 0407 |
| 0A | AE | | 7E | 7C | 00180 | 14\$: | CLRQ | -(SP) | | | | | 0408 |
| 05 | | | 7E | 7C | 00182 | | CLRQ | -(SP) | | | | | 0415 |
| 69 | | | 08 | DD | 00184 | | PUSHL | #8 | | | | | |
| | | | 30 | AE | 9F | 00186 | PUSHAB | INFO_BLOCK+4 | | | | | |
| | | | 7E | 7C | 00189 | | CLRQ | -(SP) | | | | | |
| | | | 30 | AE | 9F | 0018B | PUSHAB | IOSB | | | | | |
| | | | 23 | DD | 0018E | | PUSHL | #35 | | | | | |
| | | | 54 | DD | 00190 | | PUSHL | R4 | | | | | |
| | | | 7E | D4 | 00192 | | CLRL | -(SP) | | | | | |
| 67 | | | 0C | FB | 00194 | | CALLS | #12. | SYSSQIOW | | | | |
| 52 | | | 50 | DO | 00197 | | MOVL | RO. | STATUS | | | | |
| 07 | | | 52 | E9 | 0019A | | BLBC | STÁTUS, | 15\$ | | | | 0417 |
| 52 | | 10 | AE | 3C | 0019D | | MOVZWL | IOSB, | STATUS | | | | 0418 |
| 0E | | | 52 | E8 | 001A1 | | BLBS | STATUS, | 16\$ | | | | 0419 |
| | | | 52 | DD | 001A4 | 15\$: | PUSHL | STATUS | | | | | 0420 |
| | | | 38 | AE | 9F | 001A6 | PUSHAB | DESC | | | | | |
| | | | 01 | DD | 001A9 | | PUSHL | #1 | | | | | |
| | | | 5A | DD | 001AB | | PUSHL | R10 | | | | | |
| | | | 66 | 04 | FB | 001AD | CALLS | #4. | LIB\$SIGNAL | | | | |
| | | | 37 | 11 | 001B0 | | BRB | 20\$ | | | | | |
| 2E | 08 | 33 | 08 | AE | E9 | 001B2 | 16\$: | BLBC | FLAGS, | 20\$ | | | 0421 |
| 06 | 08 | AE | 01 | E1 | 001B6 | | BBC | #1. | FLAGS, | 20\$ | | | 0424 |
| | | 02 | E1 | 001BB | | BBC | #2. | FLAGS, | 17\$ | | | | 0426 |
| | | 50 | 68 | A5 | 9E | 001C0 | MOVAB | P.ÁBA, | RO | | | | 0427 |
| | | | 10 | 11 | 001C4 | | BRB | 19\$ | | | | | |
| 06 | 08 | AE | 03 | E1 | 001C6 | 17\$: | BBC | #3. | FLAGS, | 18\$ | | | 0428 |
| | | 50 | 74 | A5 | 9E | 001CB | MOVAB | P.ÁBC, | RO | | | | 0429 |
| | | 50 | 0080 | C5 | 9E | 001D1 | 18\$: | BRB | 19\$ | | | | |
| | | | | 50 | DD | 001D6 | 19\$: | MOVAB | P.ÁBE, | RO | | | 0430 |
| | | | | 5C | A5 | 9F | PUSHL | R0 | | | | | 0428 |
| | | | | 3C | AE | 9F | PUSHAB | P.ÁAY | | | | | 0425 |
| | | | | | 03 | DD | PUSHAB | DESC | | | | | |
| | | | | | 05 | DD | PUSHL | #3 | | | | | |
| | | | | | FB | 001E0 | PUSHL | #SETS_DEVSET2 | | | | | |
| | | | | | 05 | FB | 001E6 | #5. | LIB\$SIGNAL | | | | |
| 66 | | 0094 | C5 | 9F | 001E9 | 20\$: | CALLS | P.ÁBG | | | | | 0438 |
| 68 | | | 01 | FB | 001ED | | PUSHAB | #1. | CLISPRES | | | | |
| 48 | | | 50 | E9 | 001F0 | | CALLS | RO. | 24\$ | | | | |
| 53 | | | 01 | DO | 001F3 | | BLBC | #1. | INDEX | | | | 0441 |
| | | | 7E | 7C | 001F6 | | MOVL | CLRQ | -(SP) | | | | |
| | | | 7E | 7C | 001F8 | 21\$: | CLRQ | -(SP) | | | | | 0445 |

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| | | | | | | | |
|----|----|----------|------|-------|-------|--------------|-------------------|
| | | | | | | | |
| 08 | AE | 80 | 02 | FB | 0029F | CALLS | #2, CLISGET_VALUE |
| | | OC | 50 | E9 | 002A2 | BLBC | R0, 30\$ |
| | | 34 | 25 | D0 | 002A5 | MOVL | #34, FUNCTION |
| | | 34 | 8F | 88 | 002A8 | BISB2 | #128, FLAGS |
| | | 34 | AE | 9F | 002AD | PUSHAB | COUNT |
| | | 34 | DD | 002B0 | PUSHL | VALUE_DESC+4 | |
| | | 34 | AE | 3C | 002B3 | MOVZWL | VALUE_DESC -(SP) |
| | | 34 | 03 | FB | 002B7 | CALLS | #3, LIBSCVf_DTB |
| | | 52 | 50 | D0 | 002BA | MOVL | R0, STATUS |
| | | 6C | 52 | E8 | 002BD | BLBS | STATUS, 34\$ |
| | | 00E0 | C5 | 9F | 002C0 | PUSHAB | P_AB0 |
| | | 2C | 58 | 11 | 002C4 | BRB | 32\$ |
| | | 00F4 | AE | 9F | 002C6 | PUSHAB | VALUE_DESC |
| | | | C5 | 9F | 002C9 | PUSHAB | P_AB0 |
| | | | 02 | FB | 002CD | CALLS | #2, CLISGET_VALUE |
| | | | 50 | E9 | 002D0 | BLBC | R0, 31\$ |
| | | | 26 | D0 | 002D3 | MOVL | #38, FUNCTION |
| | | | 01 | 88 | 002D6 | BISB2 | #1, FLAGS+1 |
| | | | OC | AE | 9F | PUSHAB | COUNT |
| | | | 34 | AE | DD | PUSHL | VALUE_DESC+4 |
| | | | 34 | AE | 3C | MOVZWL | VALUE_DESC -(SP) |
| | | | 03 | FB | 002E0 | CALLS | #3, LIBSCVf_DTB |
| | | | 50 | D0 | 002E7 | MOVL | R0, STATUS |
| | | | 52 | E8 | 002EA | BLBS | STATUS, 34\$ |
| | | 0100 | C5 | 9F | 002ED | PUSHAB | P_ABS |
| | | 2C | 2B | 11 | 002F1 | BRB | 32\$ |
| | | 0114 | AE | 9F | 002F3 | PUSHAB | VALUE_DESC |
| | | | C5 | 9F | 002F6 | PUSHAB | P_AB0 |
| | | | 02 | FB | 002FA | CALLS | #2, CLISGET_VALUE |
| | | | 50 | E9 | 002FD | BLBC | R0, 34\$ |
| | | | 26 | D0 | 00300 | MOVL | #38, FUNCTION |
| | | | 01 | 88 | 00303 | BISB2 | #1, FLAGS+1 |
| | | | OC | AE | 9F | PUSHAB | COUNT |
| | | | 34 | AE | DD | PUSHL | VALUE_DESC+4 |
| | | | 34 | AE | 3C | MOVZWL | VALUE_DESC -(SP) |
| | | | 03 | FB | 0030A | CALLS | #3, LIBSCVf_DTB |
| | | | 50 | D0 | 00311 | MOVL | R0, STATUS |
| | | | 52 | EB | 00317 | BLBS | STATUS, 34\$ |
| | | 0120 | C5 | 9F | 0031A | PUSHAB | P_ABW |
| | | 30 | AE | 9F | 0031E | PUSHAB | VALUE_DESC |
| | | 0077132A | 02 | DD | 00321 | 32\$: | PUSHL |
| | | | 8F | DD | 00323 | 33\$: | PUSHL |
| | | | 0109 | 31 | 00329 | 34\$: | BRW |
| | | | 53 | D5 | 0032C | 34\$: | TSTL |
| | | | 76 | 13 | 0032E | BEQL | 39\$ |
| | | | 7E | 7C | 00330 | CLRQ | -(SP) |
| | | | 7E | 7C | 00332 | CLRQ | -(SP) |
| | | | 20 | D4 | 00334 | CLRL | -(SP) |
| | | | 7E | 7C | 00336 | PUSHL | COUNT |
| | | | 30 | AE | 00339 | CLRQ | -(SP) |
| | | | AE | 9F | 0033B | PUSHAB | IOSB |
| | | | 53 | DD | 0033E | PUSHL | FUNCTION |
| | | | 54 | DD | 00340 | PUSHL | R4 |
| | | | 7E | D4 | 00342 | CLRL | -(SP) |
| | | | OC | FB | 00344 | CALLS | #12, SYSSQIOW |
| | | | 50 | D0 | 00347 | MOVL | R0, STATUS |
| | | | 52 | E9 | 0034A | BLBC | STATUS, 35\$ |

| | | | | | | | | |
|----|-----------|----|----|-------|--------|--------|-----------------|------|
| 52 | 10 | AE | 3C | 00340 | | MOVZWL | IOSB, STATUS | 0530 |
| 24 | | 52 | E9 | 00351 | | BLBC | STATUS, 35\$ | 0531 |
| | OC | AE | D5 | 00354 | | TSTL | COUNT | 0541 |
| | | 25 | 18 | 00357 | | BGEQ | 36\$ | |
| | | 7E | 7C | 00359 | | CLRQ | -(SP) | |
| | | 7E | 7C | 0035B | | CLRQ | -(SP) | 0547 |
| | | 01 | 7D | 0035D | | MOVO | #1 -(SP) | |
| 7E | | 7E | 7C | 00360 | | CLRQ | -(SP) | |
| | 30 | AE | 9F | 00362 | | PUSHAB | IOSB | |
| | | 53 | DD | 00365 | | PUSHL | FUNCTION | |
| | | 54 | DD | 00367 | | PUSHL | R4 | |
| | | 7E | D4 | 00369 | | CLRL | -(SP) | |
| 67 | | 0C | FB | 0036B | | CALLS | #12. SYSSQIOW | |
| 52 | | 50 | DO | 0036E | | MOVL | RO, STATUS | |
| 04 | | 52 | F9 | 00371 | | BLBC | STATUS, 35\$ | 0548 |
| 52 | 10 | AE | 3C | 00374 | 35\$: | MOVZWL | IOSB, STATUS | 0549 |
| 03 | | 52 | E8 | 00378 | 35\$:: | BLBS | STATUS, 36\$ | 0550 |
| 24 | 08 | AE | E9 | 0037E | 36\$:: | BRW | 44\$ | |
| | 2C | AE | 9F | 00382 | | BLBC | FLAGS, 39\$ | 0562 |
| | 0C | AE | 95 | 00385 | | PUSHAB | VALUE_DESC | 0563 |
| | | 07 | 18 | 00388 | | TSTB | FLAGS | 0564 |
| 50 | 0134 | C5 | 9E | 0038A | | BGEQ | 37\$ | |
| 50 | 0148 | C5 | 9E | 00391 | 37\$:: | MOVAB | P.ABY, RO | 0565 |
| | | 50 | DD | 00396 | 38\$:: | BRB | 38\$ | |
| | | 3C | AE | 9F | 00398 | MOVAB | P.ACA, RO | 0566 |
| | | | 03 | DD | 00398 | PUSHL | RO | |
| | | | 03 | DD | 0039D | PUSHAB | DESC | 0563 |
| 66 | 00000000G | 8F | DD | 0039D | | PUSHL | #3 | |
| 66 | | 05 | FB | 003A3 | | PUSHL | #SETS DEVSET2 | |
| 68 | 0158 | C5 | 9F | 003A6 | 39\$:: | CALLS | #5. LIB\$SIGNAL | |
| 42 | | 01 | FB | 003AA | | PUSHAB | P.ACC | 0573 |
| | | 50 | E9 | 003AD | | CALLS | #1. CLISPRES | |
| | | 7E | 7C | 003B0 | | BLBC | RO, 43\$ | |
| | | 7E | 7C | 003B2 | | CLRQ | -(SP) | 0578 |
| | | 7E | 7C | 003B4 | | CLRQ | -(SP) | |
| | | 7E | 7C | 003B6 | | CLRQ | -(SP) | |
| | 30 | AE | 9F | 003B8 | | PUSHAB | IOSB | |
| | | 24 | DD | 003BB | | PUSHL | #36 | |
| | | 54 | DD | 003BD | | PUSHL | R4 | |
| | | 7E | D4 | 003BF | | CLRL | -(SP) | |
| 67 | | 0C | FB | 003C1 | | CALLS | #12. SYSSQIOW | |
| 52 | | 50 | DO | 003C4 | | MOVL | RO, STATUS | |
| 07 | | 52 | F9 | 003C7 | | BLBC | STATUS, 40\$ | 0579 |
| 52 | 10 | AE | 3C | 003CA | | MOVZWL | IOSB, STATUS | 0580 |
| 08 | | 52 | E8 | 003CE | | BLBS | STATUS, 41\$ | 0581 |
| | | 52 | DD | 003D1 | 40\$:: | PUSHL | STATUS | 0584 |
| | | 58 | AE | 9F | 003D3 | PUSHAB | DESC | |
| | | | 01 | DD | 003D6 | PUSHL | #1 | |
| | | | 5A | DD | 003D8 | PUSHL | R10 | |
| | | | 13 | 11 | 003DA | BRB | 42\$ | |
| 12 | 08 | AE | E9 | 003DC | 41\$:: | BLBC | FLAGS, 43\$ | 0586 |
| | 0168 | C5 | 9F | 003E0 | | PUSHAB | P.ACE | 0587 |
| | 38 | AE | 9F | 003E4 | | PUSHAB | DESC | |
| | | 02 | DD | 003E7 | | PUSHL | #2 | |
| 66 | 000000006 | 8F | DD | 003E9 | 42\$:: | PUSHL | #SETS DEVSET1 | |
| | | 04 | FB | 003EF | | CALLS | #4. LIB\$SIGNAL | |

| | | | | | | | | |
|----|-----------|----|----|-------|-------|--------|-----------------|------|
| 68 | 0178 | C5 | 9F | 003F2 | 438: | PUSHAB | P.ACQ | 0590 |
| 3C | | 01 | FB | 003F6 | | CALLS | #1, CLISPRESENT | |
| | | 50 | F9 | 003F9 | | BLBC | R0, 47\$ | |
| | | 7E | 7C | 003FC | | CLRQ | -(SP) | |
| | | 7E | 7C | 003FE | | CLRQ | -(SP) | |
| | | 7E | 7C | 00400 | | CLRQ | -(SP) | |
| | | 7E | 7C | 00402 | | CLRQ | -(SP) | |
| 30 | | AE | 9F | 00404 | | PUSHAB | I0SB | |
| | | 22 | DD | 00407 | | PUSHL | #34 | |
| | | 54 | DD | 00409 | | PUSHL | R4 | |
| | | 7E | D4 | 0040B | | CLRL | -(SP) | |
| 67 | | 0C | FB | 0040D | | CALLS | #12, SYSSQIOW | |
| 52 | | 20 | DD | 00410 | | MOVL | R0, STATUS | |
| 07 | | 52 | F9 | 00413 | | BLBC | STATUS, 44\$ | |
| 52 | 10 | AE | 3C | 00416 | | MOVZWL | I0SB, STATUS | 0596 |
| 05 | | 52 | E8 | 0041A | | BLBS | STATUS, 45\$ | 0597 |
| | | 52 | DD | 0041D | 448: | PUSHL | STATUS | 0598 |
| | | FC | 93 | 31 | 0041F | BRW | 58 | 0599 |
| 12 | 08 | AE | E9 | 00422 | 458: | BLBC | FLAGS, 47\$ | 0600 |
| | 0188 | C5 | 9F | 00426 | | PUSHAB | P.AC1 | 0601 |
| | 38 | AE | 9F | 0042A | | PUSHAB | DESC | |
| | | 02 | DD | 0042D | | PUSHL | #2 | |
| | 00000000G | 8F | DD | 0042F | | PUSHL | #SETS DEVSET1 | |
| 66 | | 04 | FB | 00435 | 468: | CALLS | #4, LIB\$SIGNAL | |
| | | 04 | 04 | 00438 | 478: | RET | | 0605 |

; Routine Size: 1081 bytes, Routine Base: SCODES + 0118

```
611      0606 1 GLOBAL ROUTINE set$printer : NOVALUE =
612      0607 2 BEGIN
613      0608 !++
614      0609 !+ Functional description
615      0610
616      0611 This is the routine for the SET PRINTER command. It is called
617      0612 from the SET command processor, and sets the characteristics of
618      0613 a printer.
619      0614
620      0615 Inputs
621      0616 None
622      0617
623      0618 Outputs
624      0619 None
625      0620
626      0621 !----
627      0622
628      0623 LOCAL
629      0624     status;
630      0625     width_desc : SBBLOCK[dsc$C_S_Bln];
631      0626     page_desc : SBBLOCK[dsc$C_S_Bln];
632      0627     desc : SBBLOCK[dsc$C_S_Bln];
633      0628     flags : SBBLOCK[4] INITIAL {0};
634      0629     info_desc : VECTOR[2];
635      0630     info_block : SBBLOCK[12];
636      0631     channel : WORD;
637      0632     fosc : VECTOR[4,WORD];
638      0633
639      0634 BIND lp_char = info_block[dib$L_devdepend] : SBBLOCK[3];
640      0635
641      0636
642      0637     | Collect the name of the printer.
643      0638
644      0639     $init_dyndesc(desc);
645      0640     $init_dyndesc(width_desc);
646      0641     $init_dyndesc(page_desc);
647      0642     clisGet_value(%ASCII 'DEVICE',
648      0643             desc);
649      0644
650      0645
651      0646     | Assign a channel to the device.
652      0647
P 0648 IF NOT (status = $ASSIGN(DEVNAM = desc,
654          CHAN = channel))
655 THEN
656     BEGIN
657     SIGNAL(set$_writeerr, 1, desc, .status);
658     RETURN;
659     END;
660
661     | Determine if it is indeed a printer
662
663     0656 info_desc[0] = 12;
664     0657 info_desc[1] = info_block;
665     P 0660 IF NOT (status = $GETCHN(SCDBUF = info_desc,
666          CHAN = .channel))
667     0662 2 THEN
```

| Status return
| /WIDTH descriptor
| /PAGE descriptor
| General purpose descriptor
| Flags (longword)
| \$GETCHN descriptor
| \$GETCHN information block
| I/O channel
| I/O status block

| Make the descriptors dynamic

| Set up the descriptor
for \$GETCHN
Issue the \$GETCHN, asking for
secondary characteristics (in
case it's spooled)

```
668      0663 3 BEGIN
669      0664 3   SIGNAL(set$_writeerr, 1, desc, .status);    ! If a problem, signal it.
670      0665 2 RETURN;
671      0666 2 END;
672      0667 2
673      0668 2 IF .info_block[dib$B_devclass] NEQU dc$_lp      ! If not a printer,
674      0669 2 THEN                                     ! signal that it's not.
675      0670 2   BEGIN
676      0671 2     SIGNAL(set$_writeerr, 1, desc,
677      0672 2       cli$_ivdevtype);
678      0673 2   END;
679      0674 2
680      0675 2
681      0676 2 | Determine what characteristics to set, and whether to log it.
682      0677 2
683      0678 2 flags[set$v_log] = cli$present(%ASCII 'LOG');
684      0679 2
685      0680 2
686      0681 2 | Real characteristics
687      0682 2
688      0683 2 IF (status = cli$present(%ASCII 'FF')) NEQ cli$absent
689      0684 2 THEN
690      0685 2   BEGIN
691      0686 2     IF .status NEQ cli$negated
692      0687 2     THEN flags[set$v_ff] = lp_char[lp$v_mechform] = 1
693      0688 2     ELSE
694      0689 4       BEGIN
695      0690 4         flags[set$v_noff] = 1;
696      0691 4         lp_char[lp$v_mechform] = 0;
697      0692 3       END;
698      0693 2     END;
699      0694 2
700      0695 2 IF (status = cli$present(%ASCII 'CR')) NEQ cli$absent
701      0696 2 THEN
702      0697 2   BEGIN
703      0698 2     IF .status NEQ cli$negated
704      0699 2     THEN flags[set$v_cr] = lp_char[lp$v_cr] = 1
705      0700 2     ELSE
706      0701 4       BEGIN
707      0702 4         flags[set$v_nocr] = 1;
708      0703 4         lp_char[lp$v_cr] = 0;
709      0704 3       END;
710      0705 2     END;
711      0706 2
712      0707 2 IF (status = cli$present(%ASCII 'PASSALL')) NEQ cli$absent
713      0708 2 THEN
714      0709 2   BEGIN
715      0710 2     IF .status NEQ cli$negated
716      0711 2     THEN flags[set$v_pass] = lp_char[lp$v_passall] = 1
717      0712 2     ELSE
718      0713 4       BEGIN
719      0714 4         flags[set$v_nopass] = 1;
720      0715 4         lp_char[lp$v_passall] = 0;
721      0716 3       END;
722      0717 2     END;
723      0718 2
724      0719 2 IF (status = cli$present(%ASCII 'PRINTALL')) NEQ cli$absent
```

```
725      0720 2 THEN
726      0721 3   BEGIN
727      0722 3     IF .status NEQ cli$_negated
728      0723 3     THEN flags[set$v_print] = lp_char[lp$v_printall] = 1
729      0724 3   ELSE
730      0725 4     BEGIN
731      0726 4       flags[set$v_noprint] = 1;
732      0727 4       lp_char[lp$v_printall] = 0;
733      0728 3     END;
734      0729 2   END;
735      0730 2
736      0731 2 IF (status = cli$present(%ASCID 'WRAP')) NEQ cli$Absent
737      0732 2 THEN
738      0733 3   BEGIN
739      0734 3     IF .status NEQ cli$negated
740      0735 3     THEN flags[set$v_wrap] = lp_char[lp$v_wrap] = 1
741      0736 3   ELSE
742      0737 4     BEGIN
743      0738 4       flags[set$v_nowrap] = 1;
744      0739 4       lp_char[lp$v_wrap] = 0;
745      0740 3     END;
746      0741 2   END;
747      0742 2
748      0743 2 IF (status = cli$present(%ASCID 'UPPERCASE')) NEQ cli$Absent
749      0744 2 THEN
750      0745 3   BEGIN
751      0746 3     IF .status EQL cli$negated
752      0747 3     THEN flags[set$v_lower] = lp_char[lp$v_lower] = 1
753      0748 3   ELSE
754      0749 4     BEGIN
755      0750 4       flags[set$v_upper] = 1;
756      0751 4       lp_char[lp$v_lower] = 0;
757      0752 3     END;
758      0753 2   END;
759      0754 2
760      0755 2 IF (status = cli$present(%ASCID 'LOWERCASE')) NEQ cli$Absent
761      0756 2 THEN
762      0757 3   BEGIN
763      0758 3     IF .status NEQ cli$negated
764      0759 3     THEN flags[set$v_lower] = lp_char[lp$v_lower] = 1
765      0760 3   ELSE
766      0761 4     BEGIN
767      0762 4       flags[set$v_upper] = 1;
768      0763 4       lp_char[lp$v_lower] = 0;
769      0764 3     END;
770      0765 2   END;
771      0766 2
772      0767 2
773      0768 2 IF (status = cli$present(%ASCID 'FALLBACK')) NEQ cli$Absent
774      0769 2 THEN
775      0770 3   BEGIN
776      0771 3     IF .status NEQ cli$negated
777      0772 3     THEN flags[set$v_fallback] = lp_char[lp$v_fallback] = 1
778      0773 3   ELSE
779      0774 4     BEGIN
780      0775 4       flags[set$v_nofallback] = 1;
781      0776 4       lp_char[lp$v_fallback] = 0;
```

```
782      0777 3      END;
783      0778 2      END;
784      0779 2
785      0780 2
786      0781 2      IF (status = cli$present(%ASCID 'TRUNCATE')) NEQ cli$Absent
787      0782 2      THEN
788      0783 2      BEGIN
789      0784 3      IF .status NEQ cli$negated
790      0785 3      THEN flags[set$V_truncate] = lp_char[lp$V_truncate] = 1
791      0786 3      ELSE
792      0787 4      BEGIN
793      0788 4      flags[set$V_nottruncate] = 1;
794      0789 5      lp_char[lp$V_truncate] = 0;
795      0790 3      END;
796      0791 2      END;
797      0792 2
798      0793 2
799      0794 2      IF (status = cli$present(%ASCID 'TAB')) NEQ cli$Absent
800      0795 2      THEN
801      0796 3      BEGIN
802      0797 3      IF .status NEQ cli$negated
803      0798 3      THEN flags[set$V_tab] = lp_char[lp$V_tab] = 1
804      0799 3      ELSE
805      0800 4      BEGIN
806      0801 4      flags[set$V_notab] = 1;
807      0802 4      lp_char[lp$V_tab] = 0;
808      0803 3      END;
809      0804 2      END;
810      0805 2
811      0806 2
812      0807 2      IF (status = cli$present(%ASCID 'SIXELS')) NEQ cli$Absent
813      0808 2      THEN
814      0809 3      BEGIN
815      0810 3      IF .status NEQ cli$negated
816      0811 3      THEN flags[set$V_sixels] = lp_char[lp$V_sixels] = 1
817      0812 3      ELSE
818      0813 4      BEGIN
819      0814 4      flags[set$V_nosixels] = 1;
820      0815 4      lp_char[lp$V_sixels] = 0;
821      0816 3      END;
822      0817 2      END;
823      0818 2
824      0819 2
825      0820 2      IF (status = cli$present(%ASCID 'BITMAPPED')) NEQ cli$Absent
826      0821 2      THEN
827      0822 3      BEGIN
828      0823 3      IF .status NEQ cli$negated
829      0824 3      THEN flags[set$V_bitmapped] = lp_char[lp$V_bitmapped] = 1
830      0825 3      ELSE
831      0826 4      BEGIN
832      0827 4      flags[set$V_nobitmapped] = 1;
833      0828 4      lp_char[lp$V_bitmapped] = 0;
834      0829 3      END;
835      0830 2      END;
836      0831 2
837      0832 2
838      0833 2
```

```
839    0834 2 | Printer type
840    0835 2 |
841    0836 2 |
842    0837 2 | IF (flags[set$v_lp11] = cli$present(%ASCID 'LP11'))
843    0838 2 | THEN info_block[dib$B_devtype] = lp$_lp11
844    0839 2 | ELSE IF (Flags[set$v_la180] = cli$present(%ASCID 'LA180'))
845    0840 2 | THEN info_block[dib$B_devtype] = lp$_la180
846    0841 2 | ELSE IF (Flags[set$v_la11] = cli$present(%ASCID 'LA11'))
847    0842 2 | THEN info_block[dib$B_devtype] = lp$_la11
848    0843 2 | ELSE IF (Flags[set$v_unk] = cli$present(%ASCID 'UNKNOWN'))
849    0844 2 | THEN info_block[dib$B_devtype] = 0;
850    0845 2 |
851    0846 2 |
852    0847 2 | Page length
853    0848 2 |
854    0849 2 | IF (flags[set$v_page] = cli$get_value(%ASCID 'PAGE', page_desc))
855    0850 2 | THEN
856    0851 2 | BEGIN
857    0852 2 | LOCAL length;
858    0853 2 | IF NOT lib$cvt_dtb(.page_desc[dsc$w_length],
859    0854 2 | .page_desc[dsc$sa_pointer],
860    0855 2 | length)
861    0856 2 | THEN
862    0857 4 | BEGIN
863    0858 4 | SIGNAL(set$invquaval, 2, page_desc, %ASCID 'PAGE');
864    0859 4 | RETURN
865    0860 3 | END;
866    0861 3 |
867    0862 3 | IF .length GTR 255
868    0863 3 | OR .length LSS 0
869    0864 3 | THEN
870    0865 4 | BEGIN
871    0866 4 | SIGNAL(set$valerr);
872    0867 4 | RETURN;
873    0868 3 | END;
874    0869 3 | info_block[11, 0, 8, 0] = .length;
875    0870 3 | END;
876    0871 2 |
877    0872 2 |
878    0873 2 | Page width
879    0874 2 |
880    0875 2 | IF (flags[set$v_width] = cli$get_value(%ASCID 'WIDTH', width_desc))
881    0876 2 | THEN
882    0877 2 | BEGIN
883    0878 2 | LOCAL width;
884    0879 2 | IF NOT lib$cvt_dtb(.width_desc[dsc$w_length],
885    0880 2 | .width_desc[dsc$sa_pointer],
886    0881 2 | width)
887    0882 2 | THEN
888    0883 4 | BEGIN
889    0884 4 | SIGNAL(set$invquaval, 2, width_desc, %ASCID 'PAGE');
890    0885 4 | RETURN
891    0886 3 | END;
892    0887 3 |
893    0888 3 | IF .width GTR 65535
894    0889 3 | OR .width LSS 0
895    0890 3 | THEN
```

```
896      0891    BEGIN
897      0892    SIGNAL(set$_valerr);
898      0893    RETURN;
899      0894    END;
900      0895    info_block[dib$w_devbufsiz] = .width;
901      0896    END;

902      0897    ! Set the specified characteristic.
903      0898    P 0900
904      0899    status = $QIOW(CHAN = .channel,
905      0900          FUNC = ios_SETMODE,
906      0901          IOSB = iosb,
907      0902          P1  = info_block[dib$b_devclass],
908      0903          P2  = 8);

909      0904    IF .status
910      0905    THEN status = .iosb[0];
911      0906    IF NOT .status
912      0907    THEN SIGNAL(set$_writeerr, 1, desc, .status)

913      0908    ! If /LOG, then say what was changed.
914      0909    ELSE IF .flags[set$v_log]
915      0910    THEN
916      0911        BEGIN
917      0912            IF .flags[set$v_ff]
918      0913            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'FF')
919      0914            ELSE IF .flags[set$v_noff]
920      0915            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'NOFF');

921      0916            IF .flags[set$v_cr]
922      0917            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'CR')
923      0918            ELSE IF .flags[set$v_nocr]
924      0919            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'NOCR');

925      0920            IF .flags[set$v_pass]
926      0921            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'PASSALL')
927      0922            ELSE IF .flags[set$v_nopass]
928      0923            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'NOPASSALL');

929      0924            IF .flags[set$v_print]
930      0925            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'PRINTALL')
931      0926            ELSE IF .flags[set$v_noprint]
932      0927            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'NOPRINTALL');

933      0928            IF .flags[set$v_wrap]
934      0929            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'WRAP')
935      0930            ELSE IF .flags[set$v_nowrap]
936      0931            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'NOWRAP');

937      0932            IF .flags[set$v_lower]
938      0933            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'LOWERCASE')
939      0934            ELSE IF .flags[set$v_upper]
940      0935            THEN SIGNAL(set$_devset1, 2, desc, %ASCIID 'UPPERCASE');

941      0936
942      0937
943      0938
944      0939
945      0940
946      0941
947      0942
948      0943
949      0944
950      0945
951      0946
952      0947
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953      0948 IF .flags[set$v_fallback]
954      0949 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'FALLBACK')
955      0950 ELSE IF .flags[set$v_nofallback]
956      0951 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOFallback');
957      0952
958      0953 IF .flags[set$v_truncate]
959      0954 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'TRUNCATE')
960      0955 ELSE IF .flags[set$v_notruncate]
961      0956 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOTRUNCATE');
962      0957
963      0958 IF .flags[set$v_tab]
964      0959 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'TAB')
965      0960 ELSE IF .flags[set$v_notab]
966      0961 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOTAB');
967      0962
968      0963 IF .flags[set$v_sixels]
969      0964 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'SIXELS')
970      0965 ELSE IF .flags[set$v_nosixels]
971      0966 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOSIXELS');
972      0967
973      0968 IF .flags[set$v_bitmapped]
974      0969 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'BITMAPPED')
975      0970 ELSE IF .flags[set$v_nobitmapped]
976      0971 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOBITMAPPED');
977      0972
978      0973 IF .flags[set$v_lp11]
979      0974 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'LP11')
980      0975 ELSE IF .flags[set$v_la180]
981      0976 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'LA180')
982      0977 ELSE IF .flags[set$v_la11]
983      0978 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'LA11')
984      0979 ELSE IF .flags[set$v_unk]
985      0980 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'UNKNOWN');
986      0981
987      0982 IF .flags[set$v_page]
988      0983 THEN SIGNAL(set$_devset2, 3, desc, %ASCID 'PAGE', page_desc);
989      0984
990      0985 IF .flags[set$v_width]
991      0986 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'WIDTH', width_desc);
992      0987 END;
993      0988
994      0989 2 RETURN;
995      0990 1 END;

```

.PSECT SPLIT\$,NOWRT,NOEXE.2

| | | |
|-------------------|-----------------------|------------------------|
| 00 00 45 43 49 56 | 45 44 001E4 P.AC1: | .ASCII \DEVICE\<0>\<0> |
| | 010E0006 001EC P.ACK: | .LONG 17694726 |
| | 00000000 001F0 | .ADDRESS P.AC1 |
| 00 47 4F 4C | 001F4 P.ACN: | .ASCII \LOG\<0> |
| | 010E0003 001F8 P.ACW: | .LONG 17694723 |
| | 00000000 001FC | .ADDRESS P.ACN |
| 00 00 46 46 | 00200 P.AC1: | .ASCII \FF\<0>\<0> |
| | 010E0002 00204 P.AC0: | .LONG 17694722 |
| | 00000000 00208 | .ADDRESS P.AC1 |

| | | | | |
|----------------|--------------|---------------|---------------------------|-------------------------------|
| | 00 00 52 43 | 0020C P.ACR: | .ASCII \CR\<0>\<0> | |
| | 010E0002 | 00210 P.ACQ: | .LONG 17694722 | |
| | 00000000 | 00214 P.ACT: | .ADDRESS P.ACR | |
| 00 4C 4C 41 53 | 53 41 50 | 00218 P.ACS: | .ASCII \PASSALL\<0> | |
| | 010E0007 | 00220 P.ACV: | .LONG 17694727 | |
| | 00000000 | 00224 P.ACW: | .ADDRESS P.ACT | |
| 4C 4C 41 54 4E | 49 52 50 | 00228 P.ACX: | .ASCII \PRINTALL\ | |
| | 010E0008 | 00230 P.ACZ: | .LONG 17694728 | |
| | 00000000 | 00234 P.ACY: | .ADDRESS P.ACV | |
| | 50 41 52 57 | 00238 P.ADB: | .ASCII \WRAP\ | |
| | 010E0004 | 00250 P.ACY: | .LONG 17694724 | |
| | 00000000 | 00240 P.ACZ: | .ADDRESS P.ACX | |
| 00 00 00 45 53 | 41 43 52 45 | 50 50 53 | 00244 P.ACZ: | .ASCII \UPPERCASE\<0>\<0>\<0> |
| | 010E0009 | 00250 P.ACY: | .LONG 17694729 | |
| | 00000000 | 00254 P.ADB: | .ADDRESS P.ACZ | |
| 00 00 00 45 53 | 41 43 52 45 | 57 4F 4C | 00258 P.ADA: | .ASCII \LOWERCASE\<0>\<0>\<0> |
| | 010E0009 | 00264 P.ADD: | .LONG 17694729 | |
| | 00000000 | 00268 P.ADC: | .ADDRESS P.ADB | |
| 4B 43 41 42 4C | 4C 41 46 | 0026C P.ADD: | .ASCII \Fallback\ | |
| | 010E0008 | 00274 P.ADC: | .LONG 17694728 | |
| | 00000000 | 00278 P.ADF: | .ADDRESS P.ADD | |
| 45 54 41 43 4E | 55 52 54 | 0027C P.ADE: | .ASCII \TRUNCATE\ | |
| | 010E0008 | 00284 P.ADH: | .LONG 17694728 | |
| | 00000000 | 00288 P.ADG: | .ADDRESS P.ADF | |
| | 00 42 41 54 | 0028C P.ADH: | .ASCII \TAB\<0> | |
| | 010E0003 | 00290 P.ADG: | .LONG 17694723 | |
| | 00000000 | 00294 P.ADJ: | .ADDRESS P.ADH | |
| 00 00 53 4C 45 | 58 49 53 | 00298 P.ADJ: | .ASCII \SIXELS\<0>\<0> | |
| | 010E0006 | 002A0 P.ADI: | .LONG 17694726 | |
| | 00000000 | 002A4 P.ADL: | .ADDRESS P.ADJ | |
| 00 00 00 44 45 | 50 50 41 4D | 54 49 42 | 002A8 P.ADL: | .ASCII \BITMAPPED\<0>\<0>\<0> |
| | 010E0009 | 002B4 P.ADK: | .LONG 17694729 | |
| | 00000000 | 002B8 P.ADN: | .ADDRESS P.ADL | |
| 31 31 31 50 4C | 002BC P.ADN: | .ASCII \LP11\ | | |
| | 010E0004 | 002C0 P.ADM: | .LONG 17694724 | |
| | 00000000 | 002C4 P.ADP: | .ADDRESS P.ADN | |
| 00 00 00 30 38 | 31 41 4C | 002C8 P.ADP: | .ASCII \LA180\<0>\<0>\<0> | |
| | 010E0005 | 002D0 P.ADO: | .LONG 17694725 | |
| | 00000000 | 002D4 P.ADR: | .ADDRESS P.ADP | |
| 31 31 31 41 4C | 002D8 P.ADR: | .ASCII \LA11\ | | |
| | 010E0004 | 002DC P.ADO: | .LONG 17694724 | |
| | 00000000 | 002E0 P.ADT: | .ADDRESS P.ADR | |
| 00 4E 57 4F 4E | 4B 4E 55 | 002E4 P.ADS: | .ASCII \UNKNOWN\<0> | |
| | 010E0007 | 002EC P.ADS: | .LONG 17694727 | |
| | 00000000 | 002F0 P.ADV: | .ADDRESS P.ADT | |
| 45 47 41 50 | 002F4 P.ADU: | .ASCII \PAGE\ | | |
| | 010E0004 | 002F8 P.ADX: | .LONG 17694724 | |
| | 00000000 | 002FC P.ADW: | .ADDRESS P.ADV | |
| 45 47 41 50 | 00300 P.ADX: | .ASCII \PAGE\ | | |
| | 010E0004 | 00304 P.ADW: | .LONG 17694724 | |
| | 00000000 | 00308 P.ADZ: | .ADDRESS P.ADX | |
| 00 00 00 48 54 | 44 49 57 | 0030C P.ADZ: | .ASCII \WIDTH\<0>\<0>\<0> | |
| | 010E0005 | 00314 P.ADY: | .LONG 17694725 | |
| | 00000000 | 00318 P.AEB: | .ADDRESS P.ADZ | |
| 65 47 41 50 | 0031C P.AEB: | .ASCII \PAGE\ | | |
| | 010E0004 | 00320 P.AEA: | .LONG 17694724 | |
| | 00000000 | 00324 P.AEA: | .ADDRESS P.AEB | |

| | | |
|----------------------------|--------------|-------------------------------|
| 00 00 46 46 | 00328 P.AED: | .ASCII \FF\<0>\<0> |
| 010E0002 00000000 | 0032C P.AEC: | .LONG 17694722 |
| 46 46 4F 4E | 00330 P.AEF: | .ADDRESS P.AED |
| 010E0004 00000000 | 00334 P.AEE: | .ASCII \NOFF\ |
| 00 00 52 43 | 00338 P.AEG: | .LONG 17694724 |
| 010E0002 00000000 | 0033C P.AEH: | .ADDRESS P.AEF |
| 52 43 4F 4E | 00340 P.AEI: | .ASCII \CR\<0>\<0> |
| 010E0004 00000000 | 00344 P.AEG: | .LONG 17694722 |
| 00 4C 4C 41 53 | 00348 P.AEH: | .ADDRESS P.AEI |
| 53 41 50 010E0007 | 00350 P.AEI: | .ASCII \NOCR\ |
| 00000000 00354 | 00354 P.AEL: | .LONG 17694724 |
| 00 00 00 4C 4C 41 53 53 41 | 00358 P.AEL: | .ADDRESS P.AEL |
| 50 4F 4E 010E0009 | 00360 P.AEK: | .ASCII \PASSALL\<0> |
| 00000000 00364 | 00364 P.AEN: | .LONG 17694727 |
| 4C 4C 41 54 4E 49 52 | 00368 P.AEM: | .ASCII \NOPASSALL\<0>\<0>\<0> |
| 49 52 50 010E0008 | 00374 P.AEP: | .LONG 17694729 |
| 00000000 00378 | 00378 P.AEO: | .ADDRESS P.AEN |
| 00 00 4C 4C 41 54 4E 49 52 | 00382 P.AER: | .ASCII \PRINTALL\ |
| 50 4F 4E 010E000A | 00384 P.AEQ: | .LONG 17694728 |
| 00000000 00388 | 00388 P.AEP: | .ADDRESS P.AER |
| 50 41 52 57 010E0004 | 0038C P.AET: | .ASCII \NOPRINTALL\<0>\<0> |
| 00000000 00392 | 00392 P.AES: | .LONG 17694730 |
| 00 00 50 41 52 57 | 00396 P.AEV: | .ADDRESS P.AET |
| 57 4F 4E 010E0006 | 003A0 P.AEU: | .ASCII \WRAP\ |
| 00000000 003A4 | 003A4 P.AES: | .LONG 17694724 |
| 00 00 00 45 53 41 43 52 45 | 003A8 P.AEV: | .ADDRESS P.AEU |
| 57 4F 4C 010E0009 | 003AC P.AEW: | .ASCII \NOWRAP\<0>\<0> |
| 00000000 003B4 | 003B4 P.AEW: | .LONG 17694726 |
| 00 00 00 45 53 41 43 52 45 | 003BC P.AEX: | .ADDRESS P.AEV |
| 50 50 55 010E0009 | 003C8 P.AEW: | .ASCII \LOWERCASE\<0>\<0>\<0> |
| 00000000 003CC | 003CC P.AEX: | .LONG 17694729 |
| 4B 43 41 42 4C 4C 41 46 | 003D0 P.AEZ: | .ADDRESS P.AEW |
| 010E0008 003DC | 003DC P.AEZ: | .ASCII \UPPERCASE\<0>\<0>\<0> |
| 00000000 003E0 | 003E0 P.AEZ: | .LONG 17694729 |
| 45 54 41 43 4E 55 | 003E4 P.AFB: | .ADDRESS P.AEZ |
| 52 54 010E0008 | 003EC P.AFA: | .ASCII \FALLBACK\ |
| 00000000 003F0 | 003F0 P.AFB: | .LONG 17694728 |
| 0C 00 4B 43 41 42 4C 4C 41 | 003F4 P.AFD: | .ADDRESS P.AFB |
| 46 4F 4E 010E000A | 00400 P.AFC: | .ASCII \NOFALLBACK\<0>\<0> |
| 00000000 00404 | 00404 P.AFD: | .LONG 17694730 |
| 45 54 41 43 4E 55 | 00408 P.AFF: | .ADDRESS P.AFD |
| 52 54 010E0008 | 00410 P.AFE: | .ASCII \TRUNCATE\ |
| 00000000 00414 | 00414 P.AFF: | .LONG 17694728 |
| 00 00 45 54 41 43 4E 55 52 | 00418 P.AFH: | .ADDRESS P.AFE |
| 54 4F 4E 010E000A | 00424 P.AFG: | .ASCII \NOTRUNCATE\<0>\<0> |
| 00000000 00428 | 00428 P.AFH: | .LONG 17694730 |
| 00 42 41 54 010E0003 | 0042C P.AFJ: | .ADDRESS P.AFG |
| 00000000 00430 | 00430 P.AFI: | .ASCII \TAB\<0> |
| 00 00 00 42 41 54 4F 4E 55 | 00434 P.AFJ: | .LONG 17694723 |
| 010E0005 00438 | 00438 P.AFL: | .ADDRESS P.AFI |
| 00000000 00440 | 00440 P.AFK: | .ASCII \NOTAB\<0>\<0>\<0> |
| 00 00 53 4C 45 58 | 00444 P.AFL: | .LONG 17694725 |
| 49 55 010E0006 | 00448 P.AFN: | .ADDRESS P.AFL |
| 00000000 00450 | 00450 P.AFM: | .ASCII \SIXELS\<0>\<0> |
| 00000000 00454 | 00454 P.AFM: | .LONG 17694726 |
| | | .ADDRESS P.AFM |

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|----|----|----|----|----|----|----|----|-------|--------|--------|------------------|-------|--------|----------|----------------------|--------|------------|--|
| | | | | | | | | | | | | | | | | | | |
| 00 | 00 | 00 | 44 | 45 | 50 | 50 | 41 | 4D | 54 | 49 | 53 | 4F | 4E | 00458 | P.AFP: | .ASCII | \NOSIXELS\ | |
| | | | | | | | | | | | 010E0008, | 00460 | P.AFO: | .LONG | 17694728 | | | |
| | | | | | | | | | | | 00000000, | 00464 | | .ADDRESS | P.AFP | | | |
| 00 | 44 | 45 | 50 | 50 | 41 | 4D | 54 | 49 | 42 | 4F | 4E | 00468 | P.AFR: | .ASCII | \BITMAPPED\<0><0><0> | | | |
| | | | | | | | | | | | 010E0009, | 00474 | P.AFQ: | .LONG | 17694729 | | | |
| | | | | | | | | | | | 00000000, | 00478 | | .ADDRESS | P.AFR | | | |
| | | | | | | | | | | | 010E0008, | 0047C | P.AFT: | .ASCII | \NOBITMAPPED\<0> | | | |
| | | | | | | | | | | | 00000000, | 00488 | P.AFS: | .LONG | 17694731 | | | |
| | | | | | | | | | | | 0048C | | | .ADDRESS | P.AFT | | | |
| | | | | | | | | | | | 010E0004, | 00490 | P.AFV: | .ASCII | \LP11\ | | | |
| | | | | | | | | | | | 00000000, | 00494 | P.AFU: | .LONG | 17694724 | | | |
| | | | | | | | | | | | 00498 | | | .ADDRESS | P.AFV | | | |
| 00 | 00 | 00 | 30 | 38 | 31 | 41 | 4C | 0049C | PAFX: | .ASCII | \LA180\<0><0><0> | | | | | | | |
| | | | | | | | | | | | 010E0005, | 004A4 | P.AFW: | .LONG | 17694725 | | | |
| | | | | | | | | | | | 00000000, | 004A8 | | .ADDRESS | P.AFX | | | |
| | | | | | | | | | | | 010E0004, | 004AC | P.AFZ: | .ASCII | \LA11\ | | | |
| | | | | | | | | | | | 00000000, | 004B0 | P.AFY: | .LONG | 17694724 | | | |
| | | | | | | | | | | | 004B4 | | | .ADDRESS | P.AFZ | | | |
| 00 | 4E | 57 | 4F | 4E | 4B | 4E | 55 | 004B8 | P.AGB: | .ASCII | \UNKNOWN\<0> | | | | | | | |
| | | | | | | | | | | | 010E0007, | 004C0 | P.AGA: | .LONG | 17694727 | | | |
| | | | | | | | | | | | 00000000, | 004C4 | | .ADDRESS | P.AGB | | | |
| | | | | | | | | | | | 010E0004, | 004C8 | P.AGD: | .ASCII | \PAGE\ | | | |
| | | | | | | | | | | | 00000000, | 004CC | P.AGC: | .LONG | 17694724 | | | |
| | | | | | | | | | | | 004D0 | | | .ADDRESS | P.AGD | | | |
| 00 | 00 | 00 | 48 | 54 | 44 | 49 | 57 | 004D4 | P.AGF: | .ASCII | \WIDTH\<0><0><0> | | | | | | | |
| | | | | | | | | | | | 010E0005, | 004DC | P.AGE: | .LONG | 17694725 | | | |
| | | | | | | | | | | | 00000000, | 004E0 | | .ADDRESS | P.AGF | | | |

| | | | | OFFC 00000 | .PSECT | SCODES,NOWRT,2 |
|----|-------------|----|-------|------------|---------|-----------------------|
| 5B | 00000000G | 00 | 9E | 00002 | MOVAB | LIB\$CVT DTB, R11 |
| 5A | 00000000G | 8F | D0 | 00009 | MOVL | #SETS WRITEERR, R10 |
| 59 | 00000000G | 00 | 9E | 00010 | MOVAB | CLISGET VALUE, R9 |
| 58 | 00000000G | 8F | D0 | 00017 | MOVL | #CLIS_NEGATED, R8 |
| 57 | 00000000G | 8F | D0 | 0001E | MOVL | #CLIS_ABSENT, R7 |
| 56 | 00000000G | 8F | D0 | 00025 | MOVL | #SETS_DEVSET1, R6 |
| 55 | 00000000G | 00 | 9E | 0002C | MOVAB | CLISPRESSENT, R5 |
| 54 | 00000000G | 00 | 9E | 00033 | MOVAB | LIBSSIGNAL, R4 |
| 53 | 00000000 | EF | 9E | 0003A | MOVAB | P.ACK, R3 |
| 5E | BC | AE | 9E | 00041 | MOVAB | -68(SP), SP |
| | OC | AE | D4 | 00045 | CLRL | FLAGS |
| 2C | AE 020E0000 | 8F | D0 | 00048 | MOVL | #34471936, DESC |
| | 30 | AE | D4 | 00050 | CLRL | DESC+4 |
| 3C | AE 020E0000 | 8F | D0 | 00053 | MOVL | #34471936, WIDTH_DESC |
| | 40 | AE | D4 | 00058 | CLRL | WIDTH_DESC+4 |
| 34 | AE 020E0000 | 8F | D0 | 0005E | MOVL | #34471936, PAGE_DESC |
| | 38 | AE | D4 | 00066 | CLRL | PAGE_DESC+4 |
| | 2C | AE | 9F | 00069 | PUSHAB | DESC |
| | | 53 | DD | 0006C | PUSHL | R3 |
| 69 | | 02 | FB | 0006E | CALLS | #2_CLISGET_VALUE |
| | | 7E | 7C | 00071 | CLRD | -(SP) |
| 08 | AE | 9F | 00073 | PUSHAB | CHANNEL | |
| 58 | AE | 9F | 00076 | PUSHAB | DESC | |

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|-----------|----|------|-------|-------|------------|-------------------------|------|
| 00000000G | 00 | 04 | FB | 00079 | CALLS | #4. SYSSASSIGN | |
| 52 | 52 | 50 | D0 | 00080 | MOVL | R0, STATUS | |
| 1E | 1E | 52 | E9 | 00083 | BLBC | STATUS, 1\$ | |
| 24 | AE | 18 | AE | 00086 | MOVL | #12 INFO DESC | 0658 |
| 28 | AE | 24 | AE | 0008A | MOVAB | INFO_BLOCK, INFO_DESC+4 | 0659 |
| | | | 7E | 00092 | PUSHAB | INFO_DESC | 0661 |
| | | | D4 | 00094 | CLRQ | -(SPT) | |
| | | | 7E | 00094 | CLRL | -(SP) | |
| 00000000G | 7E | 10 | AE | 3C | MOVZWL | CHANNEL, -(SP) | |
| 00 | 00 | 05 | FB | 0009A | CALLS | #5. SYS\$GETCHN | |
| 52 | 52 | 50 | D0 | 000A1 | MOVL | R0, STATUS | |
| 03 | 03 | 52 | F8 | 000A4 | BLBS | STATUS, 2\$ | |
| 43 | 8F | 1C | AE | 31 | BRW | 39\$ | |
| | | 02FF | 91 | 000A7 | CMPB | INFO_BLOCK+4, #67 | 0668 |
| | | 10 | 13 | 000AF | BEQL | 38 | |
| 00000000G | 8F | 02: | DD | 000B1 | PUSHL | #CLIS_IVDEVTYPE | |
| 30 | AE | 1C: | 9F | 000B7 | PUSHAB | DESC | 0671 |
| | | 01 | DD | 000BA | PUSHL | #1 | |
| | | 5A | DD | 000BC | PUSHL | R10 | |
| | | 04 | FB | 000BE | CALLS | #4. LIB\$SIGNAL | |
| OC AE | 01 | 0C | A3 | 9F | PUSHAB | P.ACML | |
| | | 00 | 01 | 000C1 | CALLS | #1. CLISPRES | 0678 |
| | | 18 | 50 | 000C7 | INSV | R0, #0, #1. FLAGS | |
| | | 65 | A3 | 9F | PUSHAB | P.AC0 | 0683 |
| | | 52 | 01 | 000CD | CALLS | #1. CLISPRES | |
| | | 57 | 50 | 000D3 | MOVL | R0, STATUS | |
| | | 52 | 52 | 000D6 | CMPL | STATUS, R7 | |
| | | 58 | 17 | 13 | BEQL | 58 | |
| | | 52 | D1 | 000D9 | CMPL | STATUS, R8 | 0686 |
| | | 0A | 13 | 000DE | BEQL | 48 | |
| 20 | AE | 02 | 88 | 000E0 | BISB2 | #2. LP CHAR | |
| OC AE | 02 | 88 | 000E4 | BISB2 | #2. FLAGS | 0687 | |
| 0C AE | 08 | 11 | 000E8 | BRB | 58 | | |
| 20 | AE | 04 | 88 | 000EA | 48: | BISB2 | 0690 |
| 20 | AE | 02 | 8A | 000EE | BICB2 | #2. LP_CHAR | |
| | | 24 | A3 | 9F | PUSHAB | P.ACQ | 0691 |
| | | 65 | 01 | 000F5 | CALLS | #1. CLISPRES | |
| | | 52 | 50 | 000F8 | MOVL | R0, STATUS | 0695 |
| | | 57 | 52 | 000F8 | CMPL | STATUS, R7 | |
| | | 58 | 17 | 13 | BEQL | 78 | |
| | | 52 | D1 | 00100 | CMPL | STATUS, R8 | 0698 |
| | | 0A | 13 | 00103 | BEQL | 68 | |
| 20 | AE | 01 | 88 | 00105 | BISB2 | #1. LP CHAR | |
| OC AE | 08 | 88 | 00109 | BISB2 | #8. FLAGS | 0699 | |
| 0C AE | 08 | 11 | 0010D | BRB | 78 | | |
| 20 | AE | 10 | 88 | 0010F | 68: | BISB2 | 0702 |
| 20 | AE | 01 | 8A | 00113 | BICB2 | #1. LP_CHAR | |
| | | 34 | A3 | 9F | PUSHAB | P.AC8 | 0703 |
| | | 65 | 01 | FB | CALLS | #1. CLISPRES | |
| | | 52 | 50 | 0011D | MOVL | R0, STATUS | 0707 |
| | | 57 | 52 | 00120 | CMPL | STATUS, R7 | |
| | | 58 | 18 | 13 | BEQL | 98 | |
| | | 52 | D1 | 00123 | CMPL | STATUS, R8 | 0710 |
| | | 0A | 13 | 00125 | BEQL | 88 | |
| 21 | AE | 01 | 88 | 0012A | BISB2 | #1. LP CHAR+1 | |
| OC AE | 20 | 88 | 0012E | BISB2 | #32. FLAGS | 0711 | |
| | | 09 | 11 | 00132 | BRB | 98 | |

| | | | | | | | | |
|----------|----|------|----|-------------|------|--------|---------------|--------|
| OC 21 | AE | 40 | 8F | 88 00134 | 88: | BISB2 | #64, FLAGS | : 0714 |
| | AE | 44 | 01 | 8A 00139 | | BICB2 | #1, LP_CHAR+1 | : 0715 |
| | | | A3 | 9F 0013D | 98: | PUSHAB | P.ACW | : 0719 |
| | 65 | | 01 | FB 00140 | | CALLS | #1, CLISPRES | |
| | 52 | | 50 | D0 00143 | | MOVL | RO, STATUS | |
| | 57 | | 52 | D1 00146 | | CMPL | STATUS, R7 | |
| | | | 18 | 13 00149 | | BEQL | 11S | |
| | 58 | | 52 | D1 0014B | | CMPL | STATUS, R8 | 0722 |
| | | | 08 | 13 0014E | | BEQL | 10S | |
| 20 | AE | 80 | 04 | 88 00150 | | BISB2 | #4, LP CHAR | 0723 |
| OC | AE | | 8F | 88 00154 | | BISB2 | #128, FLAGS | |
| | | | 08 | 11 00159 | | BRB | 11S | |
| OD 20 | AE | | 01 | 88 0015B | 10S: | BISB2 | #1, FLAGS+1 | 0726 |
| | AE | | 04 | 8A 0015F | | BICB2 | #4, LP_CHAR | 0727 |
| | | 50 | A3 | 9F 00163 | 11S: | PUSHAB | P.ACW | 0731 |
| | 65 | | 01 | FB 00166 | | CALLS | #1, CLISPRES | |
| | 52 | | 50 | D0 00169 | | MOVL | RO, STATUS | |
| | 57 | | 52 | D1 0016C | | CMPL | STATUS, R7 | |
| | | | 17 | 13 0016F | | BEQL | 13S | |
| | 58 | | 52 | D1 00171 | | CMPL | STATUS, R8 | 0734 |
| | | | 0A | 13 00174 | | BEQL | 12S | |
| 20 | AE | | 10 | 88 00176 | | BISB2 | #16, LP CHAR | 0735 |
| OD | AE | | 02 | 88 0017A | | BISB2 | #2, FLAGS+1 | |
| | | | 08 | 11 0017E | | BRB | 13S | |
| OD 20 | AE | | 04 | 88 00180 | 12S: | BISB2 | #4, FLAGS+1 | 0738 |
| | AE | | 10 | 8A 00184 | | BICB2 | #16, LP_CHAR | 0739 |
| | | 64 | A3 | 9F 00188 | 13S: | PUSHAB | P.ACY | 0743 |
| | 65 | | 01 | FB 0018B | | CALLS | #1, CLISPRES | |
| | 52 | | 50 | D0 0018E | | MOVL | RO, STATUS | |
| | 57 | | 52 | D1 00191 | | CMPL | STATUS, R7 | |
| | | | 19 | 13 00194 | | BEQL | 15S | |
| | 58 | | 52 | D1 00196 | | CMPL | STATUS, R8 | 0746 |
| | | | 0B | 12 00199 | | BNEQ | 14S | |
| 20 | AE | 80 | 8F | 88 0019B | | BISB2 | #128, LP CHAR | 0747 |
| OD | AE | | 08 | 88 001A0 | | BISB2 | #8, FLAGS+1 | |
| | | | 09 | 11 001A4 | | BRB | 15S | |
| OD 20 | AE | | 10 | 88 001A6 | 14S: | BISB2 | #16, FLAGS+1 | 0750 |
| | AE | | 80 | 8F 8A 001AA | | BICB2 | #128, LP_CHAR | 0751 |
| | | 78 | A3 | 9F 001AF | 15S: | PUSHAB | P.ADÁ | 0755 |
| | 65 | | 01 | FB 001B2 | | CALLS | #1, CLISPRES | |
| | 52 | | 50 | D0 001B5 | | MOVL | RO, STATUS | |
| | 57 | | 52 | D1 001B8 | | CMPL | STATUS, R7 | |
| | | | 19 | 13 001BB | | BEQL | 17S | |
| | 58 | | 52 | D1 001BD | | CMPL | STATUS, R8 | 0758 |
| | | | 0B | 13 001C0 | | BEQL | 16S | |
| 20 | AE | 80 | 8F | 88 001C2 | | BISB2 | #128, LP CHAR | 0759 |
| OD | AE | | 08 | 88 001C7 | | BISB2 | #8, FLAGS+1 | |
| | | | 09 | 11 001CB | | BRB | 17S | |
| OD 20 | AE | | 10 | 88 001CD | 16S: | BISB2 | #16, FLAGS+1 | 0762 |
| | AE | | 80 | 8F 8A 001D1 | | BICB2 | #128, LP_CHAR | 0763 |
| | | 0088 | C3 | 9F 001D6 | 17S: | PUSHAB | P.ADČ | 0768 |
| | 65 | | 01 | FB 001DA | | CALLS | #1, CLISPRES | |
| | 52 | | 50 | D0 001DD | | MOVL | RO, STATUS | |
| | 57 | | 52 | D1 001E0 | | CMPL | STATUS, R7 | |
| | | | 17 | 13 001E3 | | BEQL | 19S | |
| | 58 | | 52 | D1 001E5 | | CMPL | STATUS, R8 | 0771 |
| | | | 0A | 13 001E8 | | BEQL | 18S | |

| | | | | | | | | | |
|----|----|------|----|----|-------|-------|--------|---------------------|------|
| 21 | AE | | 02 | 88 | 001EA | | BISB2 | #2. LP CHAR+1 | 0772 |
| OE | AE | | 08 | 88 | 001EE | | BISB2 | #8. FLAGS+2 | |
| | | | 08 | 11 | 001F2 | 18\$: | BRB | 19\$ | |
| OE | AE | | 10 | 88 | 001F4 | 18\$: | BISB2 | #16. FLAGS+2 | 0775 |
| 21 | AE | | 02 | 8A | 001F8 | 19\$: | BICB2 | #2. LP_CHAR+1 | 0776 |
| | | 0098 | C3 | 9F | 001FC | | PUSHAB | P.ADE | 0781 |
| 65 | | | 01 | FB | 00200 | | CALLS | #1. CLISPRES | |
| 52 | | | 50 | D0 | 00203 | | MOVL | RO. STATUS | |
| 57 | | | 52 | D1 | 00206 | | CMPL | STATUS. R7 | |
| 58 | | | 1A | 13 | 00209 | | BEQL | 21\$ | |
| | | | 52 | D1 | 00208 | | CMPL | STATUS. R8 | 0784 |
| 20 | AE | 40 | 0B | 13 | 0020E | | BEQL | 20\$ | |
| OE | AE | | 8F | 88 | 00210 | | BISB2 | #64. LP CHAR | 0785 |
| | | | 20 | 88 | 00215 | | BISB2 | #32. FLAGS+2 | |
| OE | AE | 40 | 0A | 11 | 00219 | | BRB | 21\$ | |
| 20 | AE | 40 | 8F | 88 | 0021B | 20\$: | BISB2 | #64. FLAGS+2 | 0788 |
| | | 00A4 | 8F | 8A | 00220 | 21\$: | BICB2 | #64. LP_CHAR | 0789 |
| 65 | | | C3 | 9F | 00225 | | PUSHAB | P.ADG | 0794 |
| 52 | | | 01 | FB | 00229 | | CALLS | #1. CLISPRES | |
| 57 | | | 50 | D0 | 0022C | | MOVL | RO. STATUS | |
| 58 | | | 52 | D1 | 0022F | | CMPL | STATUS. R7 | |
| | | | 18 | 13 | 00232 | | BEQL | 23\$ | |
| 58 | | | 52 | D1 | 00234 | | CMPL | STATUS. R8 | 0797 |
| | | | 0B | 13 | 00237 | | BEQL | 22\$ | |
| 20 | AE | 80 | 20 | 88 | 00239 | | BISB2 | #32. LP CHAR | 0798 |
| OE | AE | | 8F | 88 | 0023D | | BISB2 | #128. FLAGS+2 | |
| | | | 08 | 11 | 00242 | | BRB | 23\$ | |
| OF | AE | | 01 | 88 | 00244 | 22\$: | BISB2 | #1. FLAGS+3 | 0801 |
| 20 | AE | | 20 | 8A | 00248 | 22\$: | BICB2 | #32. LP_CHAR | 0802 |
| | | 00B4 | C3 | 9F | 0024C | 23\$: | PUSHAB | P.ADI | 0807 |
| 65 | | | 01 | FB | 00250 | | CALLS | #1. CLISPRES | |
| 52 | | | 50 | D0 | 00253 | | MOVL | RO. STATUS | |
| 57 | | | 52 | D1 | 00256 | | CMPL | STATUS. R7 | |
| 58 | | | 17 | 13 | 00259 | | BEQL | 25\$ | |
| | | | 52 | D1 | 0025B | | CMPL | STATUS. R8 | 0810 |
| 58 | | | 0A | 13 | 0025E | | BEQL | 24\$ | |
| 21 | AE | | 04 | 88 | 00260 | | BISB2 | #4. LP CHAR+1 | 0811 |
| OF | AE | | 02 | 88 | 00264 | | BISB2 | #2. FLAGS+3 | |
| | | | 08 | 11 | 00268 | | BRB | 25\$ | |
| OF | AE | | 04 | 88 | 0026A | 24\$: | BISB2 | #4. FLAGS+3 | 0814 |
| 21 | AE | | 04 | 8A | 0026E | 24\$: | BICB2 | #4. LP_CHAR+1 | 0815 |
| | | 00C8 | C3 | 9F | 00272 | 25\$: | PUSHAB | P.ADK | 0820 |
| 65 | | | 01 | FB | 00276 | | CALLS | #1. CLISPRES | |
| 52 | | | 50 | D0 | 00279 | | MOVL | RO. STATUS | |
| 57 | | | 52 | D1 | 0027C | | CMPL | STATUS. R7 | |
| 58 | | | 17 | 13 | 0027F | | BEQL | 27\$ | |
| | | | 52 | D1 | 00281 | | CMPL | STATUS. R8 | 0823 |
| 58 | | | 0A | 13 | 00284 | | BEQL | 26\$ | |
| 21 | AE | | 08 | 88 | 00286 | | BISB2 | #8. LP CHAR+1 | 0824 |
| OF | AE | | 08 | 88 | 0028A | | BISB2 | #8. FLAGS+3 | |
| | | | 08 | 11 | 0028E | | BRB | 27\$ | |
| OF | AE | | 10 | 88 | 00290 | 26\$: | BISB2 | #16. FLAGS+3 | 0827 |
| 21 | AE | | 08 | 8A | 00294 | 26\$: | BICB2 | #8. LP_CHAR+1 | 0828 |
| | | 00D4 | C3 | 9F | 00298 | 27\$: | PUSHAB | P.ADM | 0837 |
| 65 | | | 01 | FB | 0029C | | CALLS | #1. CLISPRES | |
| 05 | | | 50 | F0 | 0029F | | INSV | RO. #5. #1. FLAGS+1 | |
| 06 | | | 50 | E9 | 002A5 | | BLBC | RO. 28\$ | |

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|-------|----|-------------|------|----------|----------|-------------------|-----------------------|--------------|--|------|--|
| | | | | | | | | | | | |
| OD AE | 01 | 1D AE | 00E4 | 01 3F | 90 002A8 | MOV8 | #1 | INFO_BLOCK+5 | | 0838 | |
| | | 65 06 | | 11 C3 | 002AC | BRB | 31\$ | | | 0839 | |
| | | 06 06 | | 0F 01 | 002AE | PUSHAB | P.ADD | | | | |
| | | 1D AE | | 50 50 | 002B2 | CALLS | #1, CLISPRES | | | | |
| | | 65 07 | 00F0 | E9 01 | 002B5 | INSV | ENT | | | | |
| | | 06 06 | | 90 02 | 002BB | BLBC | RO, #6 #1, FLAG | | | | |
| | | 1D AE | | 29 C3 | 002BE | MOV8 | S+1 | | | 0840 | |
| | | 65 07 | | 11 01 | 002C2 | BRB | #3 INFO_BLOCK+5 | | | 0841 | |
| | | 06 06 | | 9F 50 | 002C4 | PUSHAB | 31\$ | | | | |
| | | 1D AE | | F0 01 | 002C8 | CALLS | P.ADD | | | | |
| | | 65 07 | | E9 50 | 002CB | INSV | #1, CLISPRES | | | | |
| | | 06 06 | | 90 02 | 002D1 | BLBC | RO, #7 #1, FLAG | | | | |
| | | 1D AE | | 13 01 | 002D4 | MOV8 | S+1 | | | 0842 | |
| | | 65 07 | 0100 | 11 13 | 002D8 | BRB | #2 INFO_BLOCK+5 | | | 0843 | |
| | | 00 03 | | 9F C3 | 002DA | PUSHAB | 31\$ | | | | |
| | | 03 1D | | 01 FB | 002DE | CALLS | P.ADS | | | | |
| | | 34 34 | | 50 F0 | 002E1 | INSV | #1, CLISPRES | | | 0844 | |
| | | 01 01 | 010C | 50 E9 | 002E7 | BLBC | RO, #0 #1, FLAG | | | 0849 | |
| | | 2D 04 | | AE 94 | 002EA | CLRB | INFO_BLOCK+5 | | | | |
| | | 69 3C | | AE 9F | 002ED | PUSHAB | PAGE_DESC | | | | |
| | | 01 01 | | C3 9F | 002F0 | PUSHAB | P.ADD | | | | |
| | | 2D 04 | | 02 FB | 002F4 | CALLS | #2, CLISGET_VALUE | | | 0853 | |
| | | 7E 3C | | 50 F0 | 002F7 | INSV | RO, #1 #1, FLAG | | | 0854 | |
| | | 68 3C | | 50 E9 | 002FD | BLBC | RO, 33\$ | | | 0853 | |
| | | 09 04 | | AE DD | 00300 | PUSHAB | LENGTH | | | | |
| | | 01 01 | 0118 | AE 03 | 00303 | PUSHL | PAGE_DESC+4 | | | 0858 | |
| | | 18 3C | | AE 3C | 00306 | MOVZWL | PAGE_DESC, -(SP) | | | | |
| | | 38 04 | | 03 FB | 0030A | CALLS | #3, LTBSCT_DTB | | | | |
| | | 38 3C | | 50 E8 | 0030D | BLBS | RO, 32\$ | | | | |
| | | 01 01 | 38 | C3 9F | 00310 | PUSHAB | P.ADDW | | | 0858 | |
| | | 18 38 | | AE 9F | 00314 | PUSHAB | PAGE_DESC | | | | |
| | | 000000FF 04 | | 3E 11 | 00317 | BRB | 34\$ | | | | |
| | | 8F 04 | | D1 00319 | 32\$: | CMPL | LENGTH, #255 | | | 0862 | |
| | | 23 AE | 04 | 4D 14 | 00321 | BGTR | 36\$ | | | 0863 | |
| | | 3C 04 | | AE D5 | 00323 | TSTL | LENGTH | | | | |
| | | 0128 48 | | AE 19 | 00326 | BLSS | 36\$ | | | | |
| | | 0128 AE | 04 | AE 90 | 00328 | MOV8 | LENGTH, INFO_BLOCK+11 | | | 0869 | |
| | | 0128 3C | | AE 9F | 0032D | 33\$: | WIDTH_DESC | | | 0875 | |
| | | 0128 C3 | | 9F 00330 | PUSHAB | P.ADDY | | | | | |
| | | 0128 02 | | FB 00334 | PUSHAB | #2, CLISGET_VALUE | | | | | |
| | | 0128 50 | | F0 00337 | CALLS | RO, #2 #1, FLAG | | | | | |
| | | 0128 50 | | E9 0033D | INSV | RO, 38\$ | | | | | |
| | | 0128 08 | | 9F 00340 | BLBC | WIDTH | | | | 0879 | |
| | | 0128 44 | | AE DD | PUSHAB | WIDTH_DESC+4 | | | | 0880 | |
| | | 0128 44 | | DD 00343 | PUSHL | WIDTH_DESC, -(SP) | | | | 0879 | |
| | | 0128 08 | | AE 3C | MOVZWL | #3, LTBSCT_DTB | | | | | |
| | | 0128 44 | | 03 FB | CALLS | RO, 35\$ | | | | | |
| | | 0128 11 | | 50 E8 | BLBS | P.ADDA | | | | 0884 | |
| | | 0134 04 | | C3 9F | PUSHAB | WIDTH_DESC | | | | | |
| | | 0134 40 | | 9F 00350 | PUSHAB | #2 | | | | | |
| | | 0077132A 02 | | 02 DD | 00354 | PUSHAB | #7803690 | | | | |
| | | 0077132A 8F | | 8F DD | 00357 | 34\$: | 40\$ | | | | |
| | | 0000FFFF 08 | | 51 11 | 00359 | PUSHL | WIDTH, #65535 | | | 0888 | |
| | | 8F 08 | | D1 14 | 00361 | BRB | 36\$ | | | 0889 | |
| | | 007711EA 05 | | 05 14 | 00369 | PGTR | WIDTH | | | | |
| | | 007711EA 08 | | AE D5 | 0036B | TSTL | 37\$ | | | 0892 | |
| | | 007711EA 0A | | 0A 18 | 0036E | BGEQ | #7803370 | | | | |
| | | 007711EA 8F | | DD 00370 | 36\$: | PUSHL | | | | | |

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|-----------|----|------|----|-------|--------|----------------|---------------------|------|
| 64 | | 01 | FB | 00376 | | CALLS | #1. LIB\$SIGNAL | 0891 |
| 1E | AE | 08 | AE | 04 | 00379 | RET | | 0895 |
| | | | 7E | B0 | 0037A | MOVW | WIDTH, INFO_BLOCK+6 | 0905 |
| | | | 7E | 7C | 0037F | CLRQ | -(SP) | |
| | | | 7E | 7C | 00381 | CLRQ | -(SP) | |
| | | 30 | 08 | DD | 00383 | PUSHL | #8 | |
| | | 30 | AE | 9F | 00385 | PUSHAB | INFO_BLOCK+4 | |
| | | 30 | 7E | 7C | 00388 | CLRQ | -(SP) | |
| | | 30 | AE | 9F | 0038A | PUSHAB | IOSB | |
| | | 23 | DD | 0038D | FJSHL | #35 | | |
| 7E | | 28 | AE | 3C | 0038F | MOVZWL | CHANNEL, -(SP) | |
| 00000000G | 00 | | 7E | D4 | 00393 | CLRL | -(SP) | |
| 52 | | | OC | FB | 00395 | CALLS | #12. SYSSQIOW | 0907 |
| 07 | | | 50 | D0 | 0039C | MOVL | RO, STATUS | 0908 |
| 52 | | 10 | 52 | F9 | 0039F | BLBC | STATUS, 39S | 0909 |
| 0D | | | AE | 3C | 003A2 | MOVZWL | IOSB, STATUS | 0910 |
| | | | 52 | E8 | 003A6 | BLBS | STATUS, 41S | |
| | | 30 | 52 | DD | 003A9 | PUSHL | STATUS | |
| | | 30 | AE | 9F | 003AB | PUSHAB | DESC | |
| | | 01 | DD | 003AE | PUSHL | #1 | | |
| | | 5A | DD | 003B0 | PUSHL | R10 | | |
| 64 | | 04 | FB | 003B2 | 40\$: | CALLS | #4. LIB\$SIGNAL | |
| | | 04 | 04 | 003B5 | | RET | | |
| 01 | | 0C | AE | E8 | 003B6 | BLBS | FLAGS, 42S | 0915 |
| | | | 04 | 003BA | 41\$:: | RET | | |
| 0C | AE | 0140 | 01 | E1 | 003BB | BBC | #1. FLAGS, 43S | 0918 |
| | | | C3 | 9F | 003C0 | PUSHAB | P.ÁEC | 0919 |
| 0C | AE | 014C | 09 | 11 | 003C4 | BRB | 44S | 0920 |
| | | | C3 | E1 | 003C6 | BBC | #2. FLAGS, 45S | 0921 |
| | | 30 | 9F | 003CB | PUSHAB | P.ÁEE | | |
| | | 02 | AE | 9F | 003CF | PUSHAB | DESC | |
| | | 56 | DD | 003D2 | PUSHL | #2 | | |
| | | 56 | DD | 003D4 | PUSHL | R6 | | |
| 0C | AE | 0158 | 03 | E1 | 003D9 | CALLS | #4. LIB\$SIGNAL | 0923 |
| | | | C3 | 9F | 003DE | BBC | #3. FLAGS, 46S | 0924 |
| 0C | AE | 0164 | 09 | 11 | 003E2 | PUSHAB | P.ÁEG | 0925 |
| | | | C3 | E1 | 003E4 | BRB | 47S | 0926 |
| | | 30 | 9F | 003E9 | BBC | #4. FLAGS, 48S | | |
| | | 02 | AE | 9F | 003ED | PUSHAB | P.ÁEI | |
| | | 56 | DD | 003F0 | PUSHAB | DESC | | |
| | | 56 | DD | 003F2 | PUSHL | #2 | | |
| 0C | AE | 0174 | 04 | FB | 003F4 | PUSHL | R6 | 0928 |
| | | | 05 | E1 | 003F7 | CALLS | #4. LIB\$SIGNAL | 0929 |
| | | | C3 | 9F | 003FC | BBC | #5. FLAGS, 49S | |
| 0C | AE | 0188 | 09 | 11 | 00400 | PUSHAB | P.ÁEK | |
| | | | C3 | E1 | 00402 | BRB | 50S | |
| | | 30 | 9F | 00407 | BBC | #6. FLAGS, 51S | | |
| | | 02 | AE | 9F | 0040B | PUSHAB | P.ÁEM | |
| | | 56 | DD | 0040E | PUSHAB | DESC | | |
| | | 56 | DD | 00410 | PUSHL | #2 | | |
| 64 | | 04 | FB | 00412 | PUSHL | R6 | | |
| | | 0C | AE | 95 | 00415 | CALLS | #4. LIB\$SIGNAL | 0933 |
| | | 06 | 18 | 00418 | TSTB | FLAGS | | |
| | | 0198 | C3 | 9F | 0041A | BGEQ | 52S | |
| | | 08 | 08 | 11 | 0041E | PUSHAB | P.ÁEO | 0934 |
| 0E | | 0D | AE | E9 | 00420 | BRB | 53S | |
| | | | | | 52\$:: | FLAGS+1, 54S | 0935 | |

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|----|----|----|------|------|----|-------|-------|--------|-------------------|---------|------|
| | | | 01AC | C3 | 9F | 00424 | | PUSHAB | P.AEQ | 0936 | |
| | | | 30 | AE | 9F | 00428 | 53\$: | PUSHAB | DESC | | |
| | | | | 02 | DD | 0042B | | PUSHL | #2 | | |
| | | | | 56 | DD | 0042D | | PUSHL | R6 | | |
| | | | | 04 | FB | 0042F | | CALLS | #4, LIB\$SIGNAL | | |
| 06 | OD | 64 | | 01 | E1 | 00432 | 54\$: | BBC | #1, FLAGS+1, 55\$ | 0938 | |
| | | | 01B8 | C3 | 9F | 00437 | | PUSHAB | P.AES | 0939 | |
| OE | OD | AE | | 09 | 11 | 0043B | | BRB | 56\$ | | |
| | | | | 02 | E1 | 0043D | 55\$: | BBC | #2, FLAGS+1, 57\$ | 0940 | |
| | | | | C3 | 9F | 00442 | | PUSHAB | P.AEU | 0941 | |
| | | | | AE | 9F | 00446 | 56\$: | PUSHAB | DESC | | |
| | | | | 02 | DD | 00449 | | PUSHL | #2 | | |
| | | | | 56 | DD | 0044B | | PUSHL | R6 | | |
| | | | | 04 | FB | 0044D | | CALLS | #4, LIB\$SIGNAL | | |
| 06 | OD | AE | | 03 | E1 | 00450 | 57\$: | BBC | #3, FLAGS+1, 58\$ | 0943 | |
| | | | | C3 | 9F | 00455 | | PUSHAB | P.AEW | 0944 | |
| OE | OD | AE | | 09 | 11 | 00459 | | BRB | 59\$ | | |
| | | | | 04 | E1 | 0045B | 58\$: | BBC | #4, FLAGS+1, 60\$ | 0945 | |
| | | | | C3 | 9F | 00460 | | PUSHAB | P.AEY | 0946 | |
| | | | | AE | 9F | 00464 | 59\$: | PUSHAB | DESC | | |
| | | | | 02 | DD | 00467 | | PUSHL | #2 | | |
| | | | | 56 | DD | 00469 | | PUSHL | R6 | | |
| | | | | 04 | FB | 0046B | | CALLS | #4, LIB\$SIGNAL | | |
| 06 | OE | 64 | | 03 | E1 | 0046E | 60\$: | BBC | #3, FLAGS+2, 61\$ | 0948 | |
| | | | | C3 | 9F | 00473 | | PUSHAB | P.AFA | 0949 | |
| OE | OE | AE | | 09 | 11 | 00477 | | BRB | 62\$ | | |
| | | | | 04 | E1 | 00479 | 61\$: | BBC | #4, FLAGS+2, 63\$ | 0950 | |
| | | | | C3 | 9F | 0047E | | PUSHAB | P.AFC | 0951 | |
| | | | | AE | 9F | 00482 | 62\$: | PUSHAB | DESC | | |
| | | | | 02 | DD | 00485 | | PUSHL | #2 | | |
| | | | | 56 | DD | 00487 | | PUSHL | R6 | | |
| | | | | 04 | FB | 00489 | | CALLS | #4, LIB\$SIGNAL | | |
| 06 | OE | AE | | 05 | E1 | 0048C | 63\$: | BBC | #5, FLAGS+2, 64\$ | 0953 | |
| | | | | C3 | 9F | 00491 | | PUSHAB | P.AFE | 0954 | |
| OE | OE | AE | | 09 | 11 | 00495 | | BRB | 65\$ | | |
| | | | | 06 | E1 | 00497 | 64\$: | BBC | #6, FLAGS+2, 66\$ | 0955 | |
| | | | | C3 | 9F | 0049C | | PUSHAB | P.AFG | 0956 | |
| | | | | AE | 9F | 004A0 | 65\$: | PUSHAB | DESC | | |
| | | | | 02 | DD | 004A3 | | PUSHL | #2 | | |
| | | | | 56 | DD | 004A5 | | PUSHL | R6 | | |
| | | | 64 | 04 | FB | 004A7 | | CALLS | #4, LIB\$SIGNAL | | |
| | | | | OE | AE | 95 | 004AA | 66\$: | TSTB | FLAGS+2 | 0958 |
| | | | | 06 | 18 | 004AD | | BGEQ | 67\$ | | |
| | | | | C3 | 9F | 004AF | | PUSHAB | P.AFI | 0959 | |
| | | | | 08 | 11 | 004B3 | | BRB | 68\$ | | |
| | | | | OE | E9 | 004B5 | 67\$: | BLBC | FLAGS+3, 69\$ | 0960 | |
| | | | | 0254 | C3 | 9F | 004B9 | PUSHAB | P.AFK | 0961 | |
| | | | | 30 | AE | 9F | 004BD | 68\$: | PUSHAB | DESC | |
| | | | | 02 | DD | 004C0 | | PUSHL | #2 | | |
| | | | | 56 | DD | 004C2 | | PUSHL | R6 | | |
| | | | | 04 | FB | 004C4 | | CALLS | #4, LIB\$SIGNAL | | |
| 06 | OF | 64 | | 01 | E1 | 004C7 | 69\$: | BBC | #1, FLAGS+3, 70\$ | 0963 | |
| | | | | C3 | 9F | 004CC | | PUSHAB | P.AFM | 0964 | |
| OE | OF | AE | | 09 | 11 | 004D0 | | BRB | 71\$ | | |
| | | | | 02 | E1 | 004D2 | 70\$: | BBC | #2, FLAGS+3, 72\$ | 0965 | |
| | | | | C3 | 9F | 004D7 | | PUSHAB | P.AFO | 0966 | |
| | | | | 30 | AE | 9F | 004DB | 71\$: | PUSHAB | DESC | |

| | | | | | | | | |
|----|-------|----|-------------|-------------|-------------------|-------------------|------|------|
| | | | 02 | DD 004DE | PUSHL | #2 | | |
| | | | 56 | DD 004E0 | PUSHL | R6 | | |
| 06 | OF AE | 64 | 04 | FB 004E2 | CALLS | #4, LIB\$SIGNAL | | 0968 |
| | | | 0288 | C3 9F 004E5 | BBC | #3, FLAGS+3, 73\$ | | 0969 |
| 0E | OF AE | | 09 | 11 004EE | PUSHAB | P.AFQ | | |
| | | | 04 | E1 004F0 | BBC | 74\$ | | |
| | | | 029C | C3 9F 004F5 | PUSHAB | #4, FLAGS+3, 75\$ | | 0970 |
| | | | 30 | AE 9F 004F9 | PUSHAB | P.AFS | | 0971 |
| 06 | OD AE | 64 | 02 | DD 004FC | PUSHL | DESC | | |
| | | | 56 | DD 004FE | PUSHL | #2 | | |
| 06 | OD AE | 64 | 04 | FB 00500 | CALLS | R6 | | |
| | | | 05 | E1 00503 | BBC | #4, LIB\$SIGNAL | | 0973 |
| | | | C3 9F 00508 | PUSHAB | #5, FLAGS+1, 76\$ | | 0974 | |
| 06 | OD AE | | 1E | 11 0050C | BRB | P.AFU | | |
| | | | 06 | E1 0050E | 75\$: | 79\$ | | |
| | | | 02B8 | C3 9F 00513 | PUSHAB | #6, FLAGS+1, 77\$ | | 0975 |
| | | | 13 | 11 00517 | BRB | P.AFW | | 0976 |
| | | | 0D | AE 95 00519 | TSTB | 79\$ | | 0977 |
| | | | 02C4 | C3 9F 0051C | BGEQ | FLAGS+1 | | |
| | | | 08 | 11 00522 | PUSHAB | 78\$ | | |
| 0E | OE | | AE | E9 00524 | BRB | P.AFY | | 0978 |
| | | | 02D4 | C3 9F 00528 | BLBC | 79\$ | | |
| | | | 30 | AE 9F 0052C | PUSHAB | FLAGS+2, 80\$ | | 0979 |
| | | | 02 | DD 0052F | PUSHAB | P.AGA | | 0980 |
| 15 | OE AE | 64 | 56 | DD 00531 | DESC | | | |
| | | | 04 | FB 00533 | PUSHL | #2 | | |
| | | | 01 | E1 00536 | CALLS | R6 | | |
| | | | 34 | AE 9F 0053B | BBC | #4, LIB\$SIGNAL | | |
| | | | 02E0 | C3 9F 0053E | PUSHAB | #1, FLAGS+2, 81\$ | | 0982 |
| | | | 34 | AE 9F 00542 | PUSHAB | PAGE_DESC | | 0983 |
| 11 | OE AE | 64 | 03 | DD 00545 | PUSHAB | P.AGC | | |
| | | | 000000006 | 8F DD 00547 | PUSHL | DESC | | |
| | | | 05 | FB 0054D | CALLS | #3 | | |
| | | | 02F0 | E1 00550 | BBC | #SET\$ DEVSET2 | | |
| | | | 3C | AE 9F 00555 | PUSHAB | #5, LIB\$SIGNAL | | 0985 |
| | | | 34 | C3 9F 00558 | PUSHAB | #2, FLAGS+2, 82\$ | | 0986 |
| | | | 02 | AE 9F 0055C | PUSHAB | WIDTH_DESC | | |
| | | | 56 | DD 0055F | PUSHAB | P.AGE | | |
| | | | 05 | FB 00561 | PUSHL | DESC | | |
| | | | 04 | 00566 | CALLS | #2 | | |
| | | | | | RET | R6 | | |
| | | | | | | #5, LIB\$SIGNAL | | |

; Routine Size: 1383 bytes, Routine Base: \$CODES + 0551

SETDEVS
V04-000

: 997 0991 1 END
: 998 0992 0 ELUDOM

F 16
16-Sep-1984 00:47:57 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

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.EXTRN LIB\$SIGNAL

PSECT SUMMARY

| Name | Bytes | Attributes |
|---------|---|------------|
| SPLITS | 1252 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) | |
| \$CODES | 2744 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2) | |

Library Statistics

| File | ----- | Symbols | ----- | Pages | Processing |
|---------------------------------------|-------|---------|---------|--------|------------|
| | Total | Loaded | Percent | Mapped | Time |
| \$_\$255\$DUA28:[SYSLIB]STARLET.L32;1 | 9776 | 60 | 0 | 581 | 00:01.0 |

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:SETDEVS/OBJ=OBJ\$:SETDEVS MSRC\$:SETDEVS/UPDATE=(ENH\$:SETDEVS)

: Size: 2744 code + 1252 data bytes
: Run Time: 00:46.7
: Elapsed Time: 02:37.8
: Lines/CPU Min: 1274
: Lexemes/CPU-Min: 21763
: Memory Used: 423 pages
: Compilation Complete

0052 AH-BT13A-SE
VAX/VMS V4.0

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